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<b>(21) International Application Number:</b> PCT/US99/06827 <b>(22) International Filing Date:</b> 29 March 1999 (29.03.99)  <b>(30) Priority Data:</b> 60/080,242 1 April 1998 (01.04.98) US  <b>(71) Applicant:</b> DU PONT PHARMACEUTICALS COMPANY [US/US]; 974 Centre Road, WR-1ST18, Wilmington, DE 19807 (US).  <b>(72) Inventors:</b> PITTS, William, J.; 1 Gladiola Circle, Newton, PA 18940 (US). JADHAV, Prabhakar, K.; 10 Brendie Lane, Wilmington, DE 19807 (US).  <b>(74) Agent:</b> LARSEN, Scott, K.; Du Pont Pharmaceuticals Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		<b>(81) Designated States:</b> AU, BR, CA, CN, CZ, EE, HU, IL, IN, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, UA, VN, ZA, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> INTEGRIN ANTAGONISTS  <b>(57) Abstract</b>  This invention relates to novel heterocycles which are useful as antagonists of the $\alpha_v\beta_3$ integrin, the $\alpha_{2b}\beta_3$ integrin, and related cell surface adhesive protein receptors, to pharmaceutical compositions containing such compounds, processes for preparing such compounds, and to methods of using these compounds, alone or in combination with other therapeutic agents, for the inhibition of cell adhesion, the treatment of angiogenic disorders, inflammation, bone degradation, cancer metastasis, diabetic retinopathy, thrombosis, restenosis, macular degeneration, and other conditions mediated by cell adhesion and/or cell migration and/or angiogenesis.		

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TITLE

## Integrin Antagonists

FIELD OF THE INVENTION

5        This invention relates to novel heterocycles which are  
useful as antagonists of the  $\alpha_v\beta_3$  integrin, the  $\alpha_2\beta_3$   
integrin, and related cell surface adhesive protein  
receptors, to pharmaceutical compositions containing such  
compounds, processes for preparing such compounds, and to  
10    methods of using these compounds, alone or in combination  
with other therapeutic agents, for the inhibition of cell  
adhesion, the treatment of angiogenic disorders,  
inflammation, bone degradation, cancer metastasis, diabetic  
retinopathy, thrombosis, restenosis, macular degeneration,  
15    and other conditions mediated by cell adhesion and/or cell  
migration and/or angiogenesis.

BACKGROUND OF THE INVENTION

Angiogenesis or neovascularization is critical for  
20    normal physiological processes such as embryonic development  
and wound repair (Folkman and Shing, J. Biol. Chem. 1992,  
267:10931-10934; D'Amore and Thompson, Ann. Rev. Physiol.  
1987, 49:453-464). However, angiogenesis also occurs  
pathologically, for example, in ocular neovascularization  
25    (leading to diabetic retinopathy, neovascular glaucoma,  
retinal vein occlusion and blindness), in rheumatoid  
arthritis and in solid tumors (Folkman and Shing, J. Biol.  
Chem., 1992, 267:10931-10934; Blood and Zetter, Biochim.  
Biophys. Acta., 1990, 1032:118-128).

30        Tumor dissemination, or metastasis, involves several  
distinct and complementary components, including the  
penetration and transversion of tumor cells through basement  
membranes and the establishment of self-sustaining tumor  
foci in diverse organ systems. To this end, the development  
35    and proliferation of new blood vessels, or angiogenesis, is  
critical to tumor survival. Without neovascularization,  
tumor cells lack the nourishment to divide and will not be

able to leave the primary tumor site (Folkman and Shing, J. Biol. Chem., 1992, 267:10931-10934).

Inhibition of angiogenesis in animal models of cancer has been shown to result in tumor growth suppression and prevention of metastatic growth (Herblin et al., Exp. Opin. Ther. Patents, 1994, 1-14). Many angiogenic inhibitors have been directed toward blocking initial cytokine-dependent induction of new vessel growth, e.g. antibodies to endothelial cell growth factors. However, these approaches are problematic because tumor and inflammatory cells can secrete multiple activators of angiogenesis (Brooks et al., Cell, 1994, 79:1157-1164). Therefore, a more general approach that would allow inhibition of angiogenesis due to a variety of stimuli would be of benefit.

The integrin  $\alpha_v\beta_3$  is preferentially expressed on angiogenic blood vessels in chick and man (Brooks et al., Science, 1994, 264:569-571; Enenstein and Kramer, J. Invest. Dermatol., 1994, 103:381-386). Integrin  $\alpha_v\beta_3$  is the most promiscuous member of the integrin family, allowing endothelial cells to interact with a wide variety of extracellular matrix components (Hynes, Cell, 1992, 69:11-25). These adhesive interactions are considered to be critical for angiogenesis since vascular cells must ultimately be capable of invading virtually all tissues.

While integrin  $\alpha_v\beta_3$  promotes adhesive events important for angiogenesis, this receptor also transmits signals from the extracellular environment to the intracellular compartment (Leavesley et al., J. Cell Biol., 1993, 121:163-170, 1993). For example, the interaction between the  $\alpha_v\beta_3$  integrin and extracellular matrix components promotes a calcium signal required for cell motility.

During endothelium injury, the basement membrane zones of blood vessels express several adhesive proteins, including but not limited to von Willebrand factor, fibronectin, and fibrin. Additionally, several members of the integrin family of adhesion receptors are expressed on the surface of endothelial, smooth muscle and on other circulating cells. Among these integrins is  $\alpha_v\beta_3$ , the



endothelial cell, fibroblast, and smooth muscle cell receptor for adhesive proteins including von Willebrand factor, fibrinogen (fibrin), vitronectin, thrombospondin, and osteopontin. These integrins initiate a calcium-  
5 dependent signaling pathway that can lead to endothelial cell, smooth muscle cell migration and, therefore, may play a fundamental role in vascular cell biology.

Recently, an antibody to the  $\alpha_v\beta_3$  integrin has been developed that inhibits the interaction of this integrin  
10 with agonists such as vitronectin (Brooks et al., Science, 1994, 264:569-571). Application of this antibody has been shown to disrupt ongoing angiogenesis on the chick chorioallantoic membrane (CAM), leading to rapid regression of histologically distinct human tumor transplanted onto the  
15 CAM (Brooks et al., Cell, 1994, 79:1157-1164). In this model, antagonists of the  $\alpha_v\beta_3$  integrin induced apoptosis of the proliferating angiogenic vascular cells, leaving pre-existing quiescent blood vessels unaffected. Thus,  $\alpha_v\beta_3$  integrin antagonists have been shown to inhibit angiogenesis  
20 and are recognized as being useful as therapeutic agents for the treatment of human diseases such as cancer, restenosis, thromboembolic disorders, rheumatoid arthritis and ocular vasculopathies (Folkman and Shing, J. Biol. Chem., 1992, 267:10931-10934).

25 Increasing numbers of other cell surface receptors have been identified which bind to extracellular matrix ligands or other cell adhesion ligands thereby mediating cell-cell and cell-matrix adhesion processes. These receptors belong to a gene superfamily called integrins and are composed of  
30 heterodimeric transmembrane glycoproteins containing  $\alpha$ - and  $\beta$ -subunits. Integrin subfamilies contain a common  $\beta$ -subunit combined with different  $\alpha$ -subunits to form adhesion receptors with unique specificity. The genes for eight distinct  $\beta$ -subunits have been cloned and sequenced to date.

35 The  $\alpha_v\beta_3$  heterodimer is a member of the  $\beta_3$  integrin subfamily and has been described on platelets, endothelial cells, melanoma, smooth muscle cells, and osteoclasts (Horton and Davies, J. Bone Min. Res. 1989, 4:803-808;

Davies et al., J. Cell. Biol. 1989, 109:1817-1826; Horton, Int. J. Exp. Pathol., 1990, 71:741-759). Like GPIIb/IIIa, the vitronectin receptor binds a variety of RGD-containing adhesive proteins such as vitronectin, fibronectin, VWF, 5 fibrinogen, osteopontin, bone sialo protein II and thrombospondin in a manner mediated by the RGD sequence. A key event in bone resorption is the adhesion of osteoclasts to the matrix of bone. Studies with monoclonal antibodies have implicated the  $\alpha_v\beta_3$  receptor in this process and suggest 10 that a selective  $\alpha_v\beta_3$  antagonist would have utility in blocking bone resorption (Horton et al., J. Bone Miner. Res., 1993, 8:239-247; Helfrich et al., J. Bone Miner. Res., 1992, 7:335-343).

Hemostasis is the normal physiological process in which 15 bleeding from an injured blood vessel is arrested. It is a dynamic and complex process in which platelets play a key role. Within seconds of vessel injury, resting platelets become activated and are bound to the exposed matrix of the injured area by a phenomenon called platelet adhesion. 20 Activated platelets also bind to each other in a process called platelet aggregation to form a platelet plug. The platelet plug can stop bleeding quickly, but it must be reinforced by fibrin for long-term effectiveness, until the vessel injury can be permanently repaired.

25 Thrombosis may be regarded as the pathological condition wherein improper activity of the hemostatic mechanism results in intravascular thrombus formation. Activation of platelets and the resulting platelet aggregation and platelet factor secretion has been 30 associated with a variety of pathophysiological conditions including cardiovascular and cerebrovascular thromboembolic disorders, for example, the thromboembolic disorders associated with unstable angina, myocardial infarction, transient ischemic attack, stroke, atherosclerosis and 35 diabetes. The contribution of platelets to these disease processes stems from their ability to form aggregates, or platelet thrombi, especially in the arterial wall following injury.

Platelets are activated by a wide variety of agonists resulting in platelet shape change, secretion of granular contents and aggregation. Aggregation of platelets serves to further focus clot formation by concentrating activated clotting factors at the site of injury. Several endogenous agonists including adenosine diphosphate (ADP), serotonin, arachidonic acid, thrombin, and collagen, have been identified. Because of the involvement of several endogenous agonists in activating platelet function and aggregation, an inhibitor which acts against all agonists would represent a more efficacious antiplatelet agent than currently available antiplatelet drugs, which are agonist-specific.

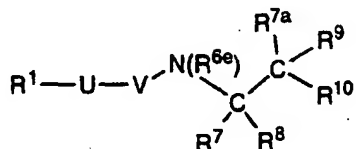
Current antiplatelet drugs are effective against only one type of agonist; these include aspirin, which acts against arachidonic acid; ticlopidine, which acts against ADP; thromboxane A<sub>2</sub> synthetase inhibitors or receptor antagonists, which act against thromboxane A<sub>2</sub>; and hirudin, which acts against thrombin.

Recently, a common pathway for all known agonists has been identified, namely platelet glycoprotein IIb/IIIa complex (GPIIb/IIIa), which is the membrane protein mediating platelet aggregation. GPIIb/IIIa is a member of the integrin family, and is also referred to as the fibrinogen receptor or the  $\alpha_2\beta_3$  integrin. A recent review of GPIIb/IIIa is provided by Phillips et al. *Cell* (1991) 65: 359-362. The development of a GPIIb/IIIa antagonist represents a promising new approach for antiplatelet therapy.

GPIIb/IIIa does not bind soluble proteins on unstimulated platelets, but GPIIb/IIIa in activated platelets is known to bind four soluble adhesive proteins, namely fibrinogen, von Willebrand factor, fibronectin, and vitronectin. The binding of fibrinogen and von Willebrand factor to GPIIb/IIIa causes platelets to aggregate. The binding of fibrinogen is mediated in part by the RGD recognition sequence which is common to the adhesive proteins that bind GPIIb/IIIa.

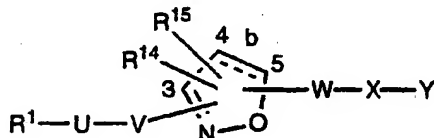
Degrado, et al. in U.S. Patent No. 5,563,158, disclose aromatic compounds containing basic and acidic termini of a general formula shown below:

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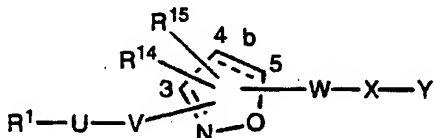


useful as fibrinogen receptor antagonists

PCT Patent Application Publication Number WO95/14683,  
published June 1, 1995 discloses isoxazoline and isoxazole  
10 fibrinogen receptor antagonists of general formula shown  
below:

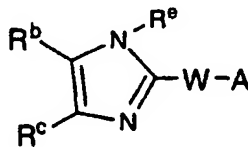


Copending, commonly assigned U.S. Patent Application  
15 Serial Number 08/455,768 filed 5/31/95 discloses integrin  
inhibitors of the general formula shown below:



20 PCT Patent Application Publication Number WO95/32710,  
published December 7, 1995 discloses compounds for  
inhibition of osteoclast-mediated bone resorption of general  
formula: X-Y-Z-Aryl-A-B ; wherein Aryl is a 6-membered  
aromatic ring system. Similarly, PCT Patent Application  
25 Publication Number WO94/08577, published April 28, 1994, and  
PCT Patent Application Publication Number WO94/12181,  
published June 9, 1994 disclose compounds as fibrinogen  
receptor antagonists of general formula: X-Y-Z-Aryl-A-B ;  
wherein Aryl is a 5 or 6-membered aromatic ring system such  
30 as phenyl, pyridyl, isoxazolyl, thiophenyl, and imidazolyl.

PCT Patent Application Publication Number WO96/00730, published January 11, 1996 discloses relevant compounds as vitronectin receptor antagonists of general formulae shown below:



5

wherein W is a bridging group and A is a fibrinogen receptor antagonist template.

- 10       None of the above references discloses or suggests the pyrimidine/pyrimidone and triazine/triazinone compounds of the present invention which are described in detail below.

#### SUMMARY OF THE INVENTION

- 15       The present invention provides novel nonpeptide compounds which bind to integrin receptors thereby altering cell-matrix and cell-cell adhesion processes. The compounds of the present invention are useful for the inhibition of cell adhesion and the treatment of angiogenic disorders,  
20   inflammation, bone degradation, cancer metastases, diabetic retinopathy, thrombosis, restenosis, macular degeneration, and other conditions mediated by cell adhesion and/or cell migration and/or angiogenesis.

- One aspect of this invention provides novel compounds  
25   of Formula (IA) (described below) which are useful as antagonists of the  $\alpha_v\beta_3$  integrin, which is also referred to as the vitronectin receptor. The compounds of the present invention inhibit the binding of vitronectin or other RGD-containing ligands to  $\alpha_v\beta_3$  and inhibit cell adhesion. The  
30   present invention also includes pharmaceutical compositions containing such compounds of Formula (IA), and methods of using such compounds for the inhibition of angiogenesis, and/or for the treatment of disorders mediated by angiogenesis.

Another aspect of the present invention comprises agents that inhibit the binding of vitronectin to the  $\alpha_v\beta_3$  receptor for the treatment (including prevention) of thrombosis which do not significantly alter hemostatic balance and do not significantly inhibit platelet aggregation and do not significantly inhibit coagulation. Also the compounds of the current invention can be used for the treatment or prevention of restenosis.

The present invention also provides novel compounds, pharmaceutical compositions and methods which may be used in the treatment or prevention of other diseases which involve cell adhesion processes, including, but not limited to, rheumatoid arthritis, asthma, allergies, adult respiratory distress syndrome, graft versus host disease, organ transplantation, septic shock, psoriasis, eczema, contact dermatitis, osteoporosis, osteoarthritis, atherosclerosis, metastasis, wound healing, diabetic retinopathy, ocular vasculopathies, thrombosis, inflammatory bowel disease and other autoimmune diseases.

Also included in the present invention are pharmaceutical kits comprising one or more containers containing pharmaceutical dosage units comprising a compound of Formula (IA), for the therapeutic inhibition of cell adhesion, the treatment of angiogenic disorders, inflammation, bone degradation, cancer metastasis, diabetic retinopathy, thrombosis, restenosis, macular degeneration, and other conditions mediated by cell adhesion and/or cell migration and/or angiogenesis.

Another aspect of the present invention comprises pharmaceutical compositions containing compounds of Formula (IA), and methods of using such compounds for the treatment (including prevention) of cardiovascular disease, thrombosis or harmful platelet aggregation, reocclusion following thrombolysis, reperfusion injury, or restenosis by administering a compound of Formula (IA) alone or in combination with one or more additional therapeutic agents selected from: anti-coagulants such as warfarin or heparin; anti-platelet agents such as aspirin, piroxicam or

ticlopidine; thrombin inhibitors such as boroarginine derivatives, hirudin or argatroban; or thrombolytic agents such as tissue plasminogen activator, anistreplase, urokinase or streptokinase; or combinations thereof.

5

#### DETAILED DESCRIPTION OF THE INVENTION

The present invention provides novel nonpeptide compounds of Formula (IA) (described below) which bind to integrin receptors thereby altering cell-matrix and cell-cell adhesion processes. The compounds of the present invention are useful for the inhibition of cell adhesion and the treatment of angiogenic disorders, inflammation, bone degradation, cancer metastases, diabetic retinopathy, thrombosis, restenosis, macular degeneration, and other conditions mediated by cell adhesion and/or cell migration and/or angiogenesis, in a mammal.

One aspect of this invention provides novel compounds of Formula (IA) which are useful as antagonists of the  $\alpha_v\beta_3$  integrin or GPIIb/IIIa. The compounds of the present invention inhibit the binding of vitronectin and other RGD-containing ligands to the  $\alpha_v\beta_3$  integrin or GPIIb/IIIa and inhibit cell adhesion. The present invention also includes pharmaceutical compositions containing such compounds of Formula (IA) and methods of using such compounds for the inhibition of angiogenesis, and/or for the treatment of angiogenic disorders, and/or for the inhibition or prevention of thrombosis, and/or for the treatment of thromboembolic disorders, and/or for the treatment of inflammation, bone degradation, cancer metastasis, diabetic retinopathy, restenosis, macular degeneration, and other conditions mediated by cell adhesion and/or cell migration and/or angiogenesis.

As used herein the term "integrin antagonist template" means the core structure of an integrin receptor antagonist, said core including an acidic group. An integrin receptor antagonist is an agent which binds to integrin receptors thereby altering cell-matrix and cell-cell adhesion processes. The present invention provides for an integrin

receptor antagonist are preferably RGD peptidomimetic compounds comprising a guanidine mimic linked to an integrin antagonist template. Such integrin receptor antagonists preferably bind to the integrin receptors of the  $\alpha_v\beta_3$  integrin, the  $\alpha_{2b}\beta_3$  integrin, the integrin receptor GPIIb-IIIa, and related cell surface adhesive protein receptors.

[1] The present invention comprises compounds of Formula (I):

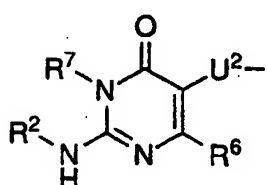
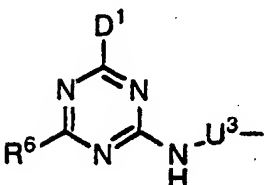
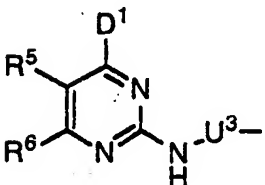
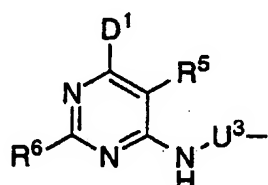
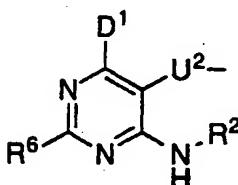
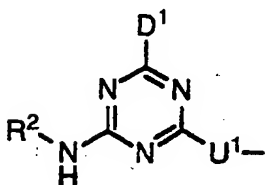
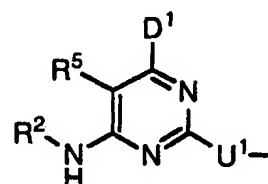
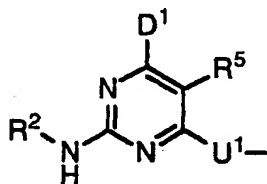
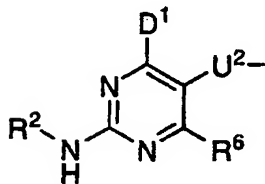
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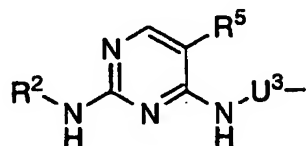
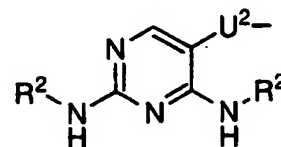
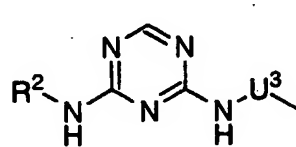
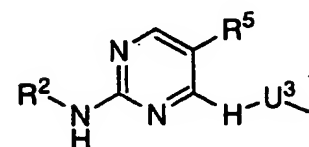
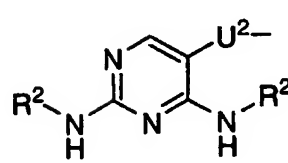
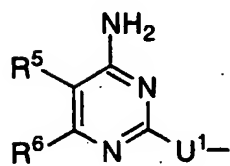
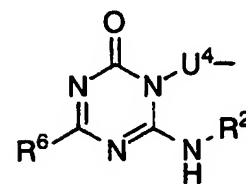
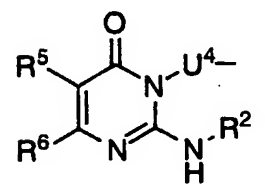
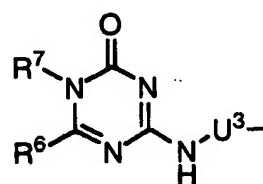
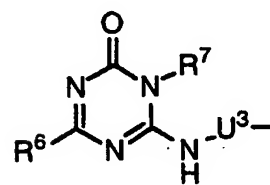
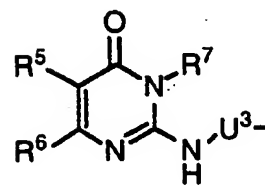
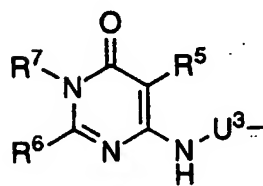
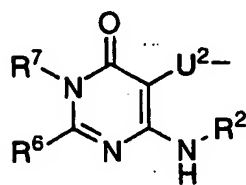
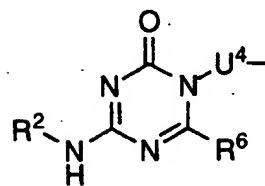
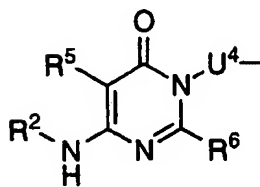
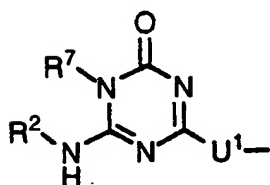
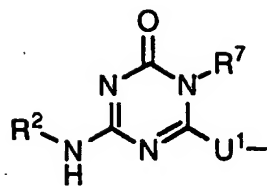
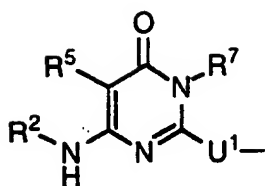
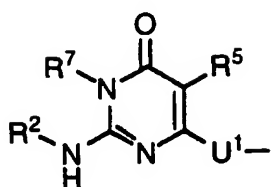
including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or prodrug forms thereof, wherein:

T is an integrin antagonist template; and

G is a guanidine mimic selected from:







and

wherein

15  $D^1$  is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, SR<sup>3</sup>, F, Cl, Br, CF<sub>3</sub>, and C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>2</sup> at each occurrence is independently selected from:

5 H, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>3</sup> at each occurrence is independently selected from:

20 H, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

30 R<sup>4</sup> is selected from:

35 H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or

heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

- 5 alternatively, R<sup>2</sup> and R<sup>4</sup> when both substituents on the same nitrogen atom as in (-NR<sup>2</sup>R<sup>4</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, 10 thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, 15 C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, arylsulfonyl, and heteroarylsulfonyl;
- 20 R<sup>5</sup> is selected from:  
H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, NO<sub>2</sub>, NO, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl and heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;
- 25

- alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and aryl, wherein said aryl group is substituted with 0-2 substituents independently selected from the
- 30
- 35

group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>6</sup> is selected from:

5 H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>, F, Cl, and Br, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
10 and NO<sub>2</sub>;

alternatively, R<sup>5</sup> and R<sup>6</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered  
15 heterocyclic ring containing 1, 2 or 3 nitrogen atoms or a 5-7 membered carbocyclic ring, said carbocyclic or heterocyclic ring being aromatic or nonaromatic, said carbocyclic or heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
20 NO<sub>2</sub> and aryl, wherein said aryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

25

R<sup>7</sup> is selected from:

H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2  
30 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent  
35 atoms, are taken together with the atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic

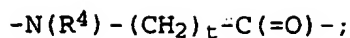
ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and aryl, wherein said aryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

U<sup>1</sup> is selected from:

10        - (CH<sub>2</sub>)<sub>n</sub>-,  
           -Q<sup>1</sup>-(CH<sub>2</sub>)<sub>m</sub>-,  
           -(CH<sub>2</sub>)<sub>m</sub>-Q<sup>2</sup>-,  
           -(CH<sub>2</sub>)<sub>t</sub>-Q<sup>2</sup>-CH<sub>2</sub>-,  
           -CH<sub>2</sub>-Q<sup>2</sup>-(CH<sub>2</sub>)<sub>t</sub>-,  
 15        -(CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-C(=O)-,  
           -(CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,  
           -(CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,  
           -(CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,  
           -C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-,  
 20        -N(R<sup>4</sup>)-,  
           -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-Q<sup>2</sup>-,  
           -N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and  
           -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-C(=O)-;

25        U<sup>2</sup> is selected from:

          -(CH<sub>2</sub>)<sub>h</sub>-,  
           -Q<sup>1</sup>-(CH<sub>2</sub>)<sub>r</sub>-,  
           -(CH<sub>2</sub>)<sub>r</sub>-Q<sup>2</sup>-,  
           -(CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-C(=O)-,  
 30        -(CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,  
           -(CH<sub>2</sub>)<sub>i</sub>-C(=O)-N(R<sup>3</sup>)-,  
           -(CH<sub>2</sub>)<sub>i</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,  
           -(CH<sub>2</sub>)<sub>i</sub>-Q<sup>2</sup>-CH<sub>2</sub>-,  
           -CH<sub>2</sub>-Q<sup>2</sup>-(CH<sub>2</sub>)<sub>i</sub>-,  
 35        -C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>i</sub>-,  
           -N(R<sup>4</sup>)-,  
           -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-Q<sup>2</sup>-,  
           -N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>i</sub>-, and



U<sup>3</sup> is selected from:

- (CH<sub>2</sub>)<sub>h</sub>-,
- 5 - (CH<sub>2</sub>)<sub>q</sub>-Q<sup>2</sup>-,
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-C(=O)-,
- (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>q</sub>-S(O)<sub>2</sub>-N(R<sup>3</sup>),
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-S(O)<sub>2</sub>-,
- 10 - (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>q</sub>-O-CH<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>h</sub>-C(=O)-,
- C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and
- C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>p</sub>;

15

U<sup>4</sup> is selected from:

- (CH<sub>2</sub>)<sub>h</sub>-,
- (CH<sub>2</sub>)<sub>2</sub>-Q<sup>2</sup>-,
- (CH<sub>2</sub>)<sub>2</sub>-O-CH<sub>2</sub>-,
- 20 - (CH<sub>2</sub>)<sub>r</sub>-C(=O)-,
- C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and
- C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>r</sub>;

25 Q<sup>1</sup> is -O-, -S-, or N(R<sup>4</sup>);

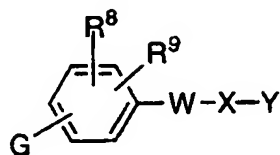
Q<sup>2</sup> is -O-, -S-, -S(=O)-, -S(=O)<sub>2</sub>-, or N(R<sup>3</sup>);

- h is 0-4;
- i is 0-2;
- 30 m is 1-4;
- n is 0-5;
- q is 2-3;
- r is 0-3;
- t is 1-3; and
- 35 p is 0-2.

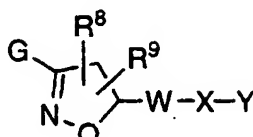
provided that when R<sup>6</sup> is hydrogen then D<sup>1</sup> is not hydrogen.

[2] The present invention preferably comprises compounds of Formula (IA), (IB), (IC), (ID), (IE), (IG) or (IH):

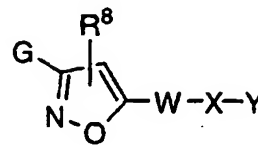
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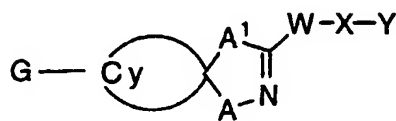
(IA)



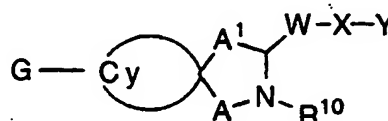
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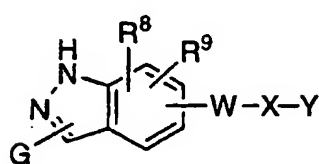
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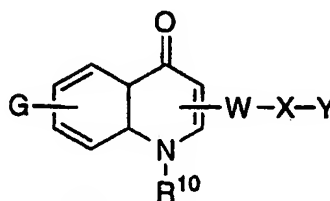
(ID)



(IE)



(IG)



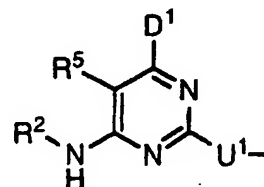
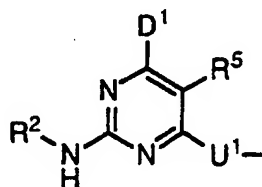
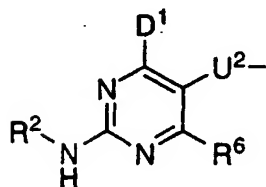
(IH)

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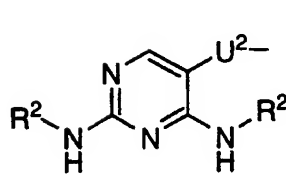
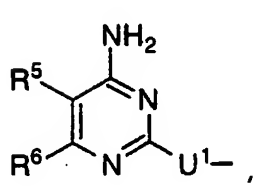
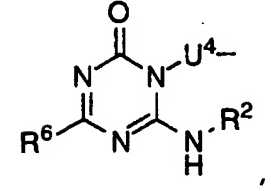
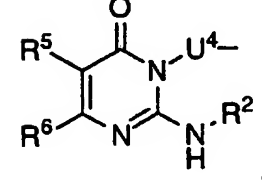
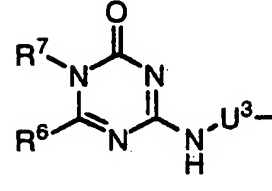
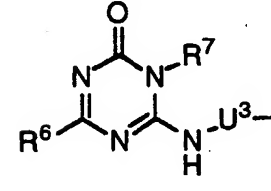
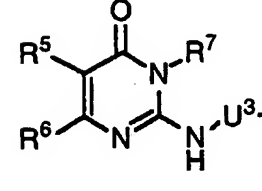
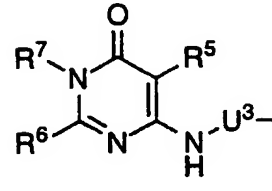
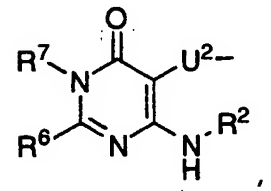
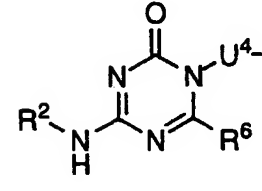
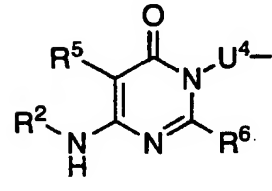
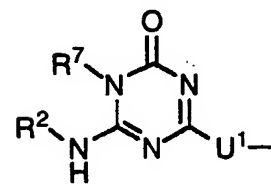
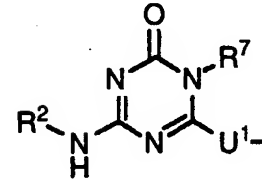
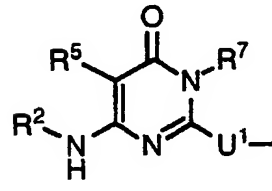
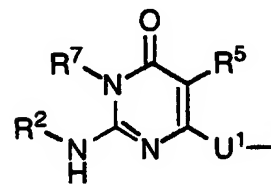
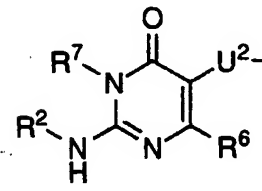
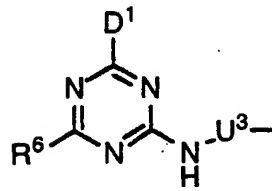
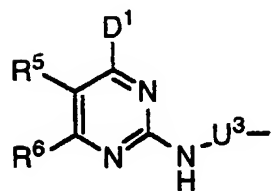
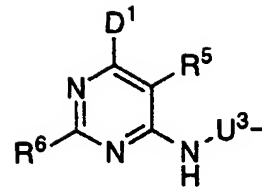
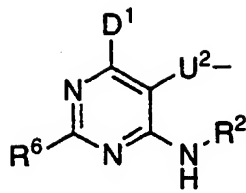
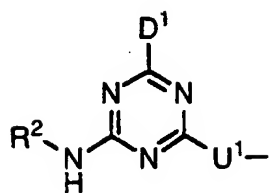
including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or prodrug forms thereof, wherein:

15

G is a *meta* or *para* substituent with respect to W and is selected from:



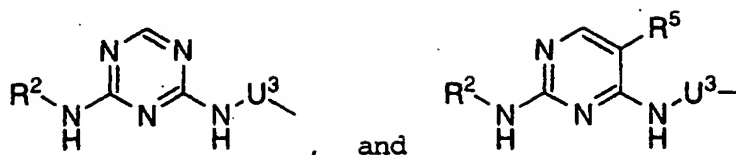
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10





A<sup>1</sup> is selected from -NH-, -CH- or -O-;

5

A is selected from -O- or -NH-;

Cy is a spiro-fused 4-7 membered ring, including the spiro atom, containing 0-2 heteroatoms selected from O, S, or N, said ring system optionally being substituted on carbon with keto, or being substituted on carbon or nitrogen independently with 0-2 R<sup>8</sup>;

10

D<sup>1</sup> is selected from:

15 NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, SR<sup>3</sup>, F, Cl, Br, CF<sub>3</sub>, and C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>2</sup> at each occurrence is independently selected from:

H, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

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R<sup>3</sup> at each occurrence is independently selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>

35

- cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and
- 5 heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;
- 10 R<sup>1</sup> is selected from:
- H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and
- 15 heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;
- 20

- alternatively, R<sup>2</sup> and R<sup>4</sup> when both substituents on the same nitrogen atom as in (-NR<sup>2</sup>R<sup>4</sup>) can be taken together with the nitrogen atom to which they are attached to form a
- 25 heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, arylsulfonyl, and heteroarylsulfonyl;
- 30
- 35

R<sup>5</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, NO<sub>2</sub>, NO, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl and heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and aryl, wherein said aryl group is substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

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R<sup>6</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>, F, Cl, and Br, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

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alternatively, R<sup>5</sup> and R<sup>6</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms or a 5-7 membered carbocyclic ring, said carbocyclic or heterocyclic ring being aromatic or nonaromatic, said carbocyclic or heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub> and aryl, wherein said aryl groups are substituted

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with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

5 R<sup>7</sup> is selected from:

H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group  
 10 consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent atoms, are taken together with the atoms to which they  
 15 are attached to form a 5-7 membered heterocyclic ring containing 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and aryl,  
 20 wherein said aryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

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U<sup>1</sup> is selected from:

- (CH<sub>2</sub>)<sub>n</sub>-,  
 -Q<sup>1</sup>-(CH<sub>2</sub>)<sub>m</sub>-,  
 - (CH<sub>2</sub>)<sub>m</sub>-Q<sup>2</sup>-,  
 30 - (CH<sub>2</sub>)<sub>t</sub>-Q<sup>2</sup>-CH<sub>2</sub>-,  
 -CH<sub>2</sub>-Q<sup>2</sup>-(CH<sub>2</sub>)<sub>t</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-C(=O)-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,  
 35 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,  
 -C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-,  
 -N(R<sup>4</sup>)-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-Q<sup>2</sup>-,

$-N(R^4)-C(=O)-(CH_2)_r-$ , and  
 $-N(R^4)-(CH_2)_t-C(=O)-$ ;

$U^2$  is selected from:

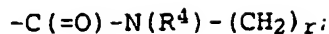
- 5         $-(CH_2)_h-$ ,  
           $-Q^1-(CH_2)_r-$ ,  
           $-(CH_2)_r-Q^2-$ ,  
           $-(CH_2)_i-N(R^3)-C(=O)-$ ,  
           $-(CH_2)_i-N(R^3)-S(=O)_2-$ ,  
 10        $-(CH_2)_i-C(=O)-N(R^3)-$ ,  
           $-(CH_2)_i-S(=O)_2-N(R^3)-$ ,  
           $-(CH_2)_i-Q^2-CH_2-$ ,  
           $-CH_2-Q^2-(CH_2)_i-$ ,  
           $-C(=O)-N(R^4)-(CH_2)_i-$ ,  
 15        $-N(R^4)-$ ,  
           $-N(R^4)-(CH_2)_2-Q^2-$ ,  
           $-N(R^4)-C(=O)-(CH_2)_i-$ , and  
           $-N(R^4)-(CH_2)_t-C(=O)-$ ;

20        $U^3$  is selected from:

- $-(CH_2)_h-$ ,  
           $-(CH_2)_q-Q^2-$ ,  
           $-(CH_2)_q-N(R^3)-C(=O)-$ ,  
           $-(CH_2)_t-C(=O)-N(R^3)-$ ,  
 25        $-(CH_2)_q-S(O)_2-N(R^3)-$ ,  
           $-(CH_2)_q-N(R^3)-S(O)_2-$ ,  
           $-(CH_2)_q-N(R^3)-CH_2-$ ,  
           $-(CH_2)_q-O-CH_2-$ ,  
           $-(CH_2)_h-C(=O)-$ ,  
 30        $-C(=O)-(CH_2)_r-$ , and  
           $-C(=O)-N(R^4)-(CH_2)_p$ ;

$U^4$  is selected from:

- $-(CH_2)_h-$ ,  
 35        $-(CH_2)_2-Q^2-$ ,  
           $-(CH_2)_2-O-CH_2-$ ,  
           $-(CH_2)_r-C(=O)-$ ,  
           $-C(=O)-(CH_2)_r-$ , and



$Q^1$  is -O-, -S-, or  $N(R^4)$ ;

5  $Q^2$  is -O-, -S-,  $-S(=O)-$ ,  $-S(=O)_2-$ , or  $N(R^3)$ ;

$R^8$  and  $R^9$  are independently selected from:

H,  $C_1$ - $C_{10}$  alkyl,  $NO_2$ ,  $CF_3$ , F, Cl, Br,  $C_1$ - $C_{10}$   
 alkylcarbonyl,  $-NR^2R^4$ ,  $OC(=O)R^{10}$ ,  $OC(=O)OR^{10}$ ,  $OR^{10}$ ,  
 10  $OC(=O)NR^{10}R^{11}$ ,  $OCH_2CO_2R^{10}$ ,  $CO_2CH_2CO_2R^{10}$ ,  $CO_2R^{10}$ ,  $C(=O)R^{10}$ ,  
 $NR^{10}C(=O)R^{11}$ ,  $NR^7C(=O)OR^{10}$ ,  $NR^7C(=O)NR^{10}R^{11}$ ,  
 $NR^7SO_2NR^{10}R^{11}$ ,  $NR^7SO_2R^{10}$ ,  $SR^{10}$ ,  $S(=O)R^{10}$ ,  $SO_2R^{10}$ ,  
 $SO_2NR^{10}R^{11}$ ,  $SiMe_3$ ,  $R^{10}OOC(C_1-C_6 \text{ alkyl})$ ,  $R^2R^4N(C_2-C_6$   
 $\text{alkyl})$ ,  $R^{10}OOC(C_1-C_6 \text{ alkoxy})$ ,  $R^2R^4N(C_2-C_6 \text{ alkoxy})$ ,  $C_2-C_6$   
 15  $\text{alkenyl}$ ,  $C_3-C_{10}$  cycloalkyl,  $C_3-C_{10}$  cycloalkylmethyl,  
 aryl, and aryl( $C_1-C_5$  alkyl)-, wherein said aryl groups  
 are substituted with 0-2 substituents independently  
 selected from a group consisting of  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$   
 alkoxy, F, Cl, Br,  $CF_3$ , and  $NO_2$ ;

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$R^{10}$  and  $R^{11}$  are independently selected from:

H,  $C_1$ - $C_8$  alkyl,  $C_3-C_6$  alkenyl,  $C_3-C_{10}$  cycloalkyl( $C_0-C_4$   
 alkyl), aryl( $C_0-C_4$  alkyl), and heteroaryl( $C_0-C_4$  alkyl),  
 wherein said aryl or heteroaryl groups are substituted  
 25 with 0-2 substituents independently selected from the  
 group consisting of  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  alkoxy, F, Cl,  
 Br,  $CF_3$ , and  $NO_2$ ;

alternatively,  $R^{10}$  and  $R^{11}$  when both substituents on the same  
 30 nitrogen atom as in  $(-NR^{10}R^{11})$  can be taken together  
 with the nitrogen atom to which they are attached to  
 form a heterocycle selected from 1-aziridinyl, 1-  
 azetidiny, 1-piperidinyl, 1-morpholinyl, 1-  
 pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-  
 35 piperazinyl; said heterocycle being optionally  
 substituted with 0-3 groups selected from oxo,  $C_1$ - $C_6$   
 alkyl,  $C_3-C_7$  cycloalkyl( $C_0-C_4$  alkyl),  $C_1$ - $C_6$   
 alkylcarbonyl,  $C_3-C_7$  cycloalkyl( $C_0-C_5$  alkyl)carbonyl,

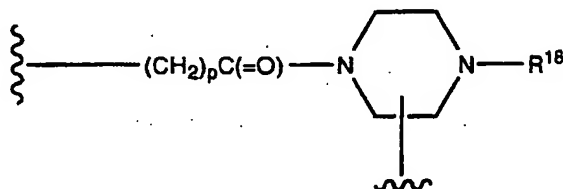
C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl (C<sub>0</sub>-C<sub>5</sub> alkoxy) carbonyl, aryl (C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl (C<sub>0</sub>-C<sub>5</sub> alkyl), aryl (C<sub>1</sub>-C<sub>5</sub> alkoxy) carbonyl, heteroaryl (C<sub>1</sub>-C<sub>5</sub> alkoxy) carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and  
 5 heteroarylsulfonyl;

W is selected from:

C<sub>1</sub>-C<sub>4</sub> alkylene,  
 - (C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>O(C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>-,  
 10 - (C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>C(=O)(C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>-,  
 - (C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>C(=O)N(R<sup>13</sup>)-, and  
 -C(=O)-N(R<sup>13</sup>)-(C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>-;

X is - (C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>C(R<sup>12</sup>)(R<sup>14</sup>)-C(R<sup>12</sup>)<sub>2</sub>- or  
 15 - (C(R<sup>12</sup>)<sub>2</sub>)<sub>p</sub>-C(R<sup>12</sup>)(R<sup>15</sup>)-;

alternatively, W and X can be taken together to be



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R<sup>12</sup> at each occurrence is independently selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl,  
 C<sub>3</sub>-C<sub>7</sub> cycloalkyl (C<sub>0</sub>-C<sub>4</sub> alkyl)-, (C<sub>1</sub>-C<sub>4</sub> alkyl) carbonyl,  
 aryl (C<sub>0</sub>-C<sub>6</sub> alkyl), and heteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
 25 said aryl or heteroaryl groups are substituted with 0-2  
 substituents independently selected from the group  
 consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
 and NO<sub>2</sub>;

30 R<sup>13</sup> is selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl (C<sub>0</sub>-C<sub>6</sub> alkyl), aryl (C<sub>0</sub>-C<sub>6</sub> alkyl), or heteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl  
 and heteroaryl groups are substituted with 0-2  
 substituents independently selected from the group

consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>14</sup> is selected from:

- 5 H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), R<sup>17</sup>R<sup>20</sup>NC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>R<sup>20</sup>N(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above  
 10 alkyl, cycloalkyl, aryl or heteroaryl groups may optionally be substituted independently with 0-1 R<sup>16</sup> or 0-2 R<sup>8</sup>;

R<sup>15</sup> is selected from:

- 20 H, R<sup>16</sup>, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl (C<sub>0</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylamino(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>2</sub>-C<sub>10</sub> dialkyl-amino(C<sub>1</sub>-C<sub>6</sub> alkyl), (C<sub>1</sub>-C<sub>10</sub> alkyl)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), CO<sub>2</sub>R<sup>17</sup>,  
 25 C(=O)R<sup>17</sup>, CONR<sup>17</sup>R<sup>20</sup>, SO<sub>2</sub>R<sup>17</sup>, and SO<sub>2</sub>NR<sup>17</sup>R<sup>20</sup>, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

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Y is selected from -C(=O)R<sup>19</sup>, -SO<sub>3</sub>H, and -PO<sub>3</sub>H;

R<sup>16</sup> is selected from:

- 35 -N(R<sup>20</sup>)-C(=O)-O-R<sup>17</sup>,  
 -N(R<sup>20</sup>)-C(=O)-R<sup>17</sup>,  
 -N(R<sup>20</sup>)-C(=O)-NH-R<sup>17</sup>,  
 -N(R<sup>20</sup>)SO<sub>2</sub>-R<sup>17</sup>, and  
 -N(R<sup>20</sup>)SO<sub>2</sub>-NR<sup>20</sup>R<sup>17</sup>;



R<sup>17</sup> is selected from:

C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
5 heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), and heteroarylheteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
said aryl or heteroaryl groups are optionally  
substituted with 0-3 substituents independently  
selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
10 C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>18</sup> is selected from:

H,  
-C(=O)OR<sup>17</sup>,  
15 -C(=O)R<sup>17</sup>,  
-C(=O)NHR<sup>17</sup>,  
-SO<sub>2</sub>R<sup>17</sup>,  
-SO<sub>2</sub>NR<sup>20</sup>R<sup>17</sup>,  
C<sub>1</sub>-C<sub>10</sub> alkyl,  
20 C<sub>3</sub>-C<sub>10</sub> cycloalkyl (C<sub>0</sub>-C<sub>6</sub> alkyl),  
aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), and  
heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
wherein said aryl group is optionally substituted with  
0-3 substituents independently selected from the group  
25 consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, aryl, F, Cl,  
Br, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

R<sup>19</sup> is selected from:

hydroxy,  
30 C<sub>1</sub>-C<sub>10</sub> alkyloxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkyloxy,  
aryloxy,  
aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy),  
C<sub>2</sub>-C<sub>10</sub> alkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
35 C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,

- C<sub>3</sub>-C<sub>10</sub> cycloalkoxycarbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
aryloxycarbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
aryloxycarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
arylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
5 C<sub>1</sub>-C<sub>5</sub> alkoxy(C<sub>1</sub>-C<sub>5</sub> alkyl)carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
(5-(C<sub>1</sub>-C<sub>5</sub> alkyl)-1,3-dioxo-cyclopenten-2-one-  
yl)methyloxy,  
(5-aryl-1,3-dioxo-cyclopenten-2-one-yl)methyloxy,  
(R<sup>10</sup>)(R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy) and  
10 -O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>)(R<sup>22</sup>)(R<sup>23</sup>)Z<sup>-</sup>;
- R<sup>20</sup> is selected from:  
H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl)-, aryl,  
aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)-, and heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
15 said aryl or heteroaryl groups are optionally  
substituted with 0-3 substituents independently  
selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;
- 20 Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
ethanesulfonate, acetate, trifluoroacetate, citrate,  
oxalate, succinate, and malonate;
- 25 R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:  
H, C<sub>1</sub>-C<sub>9</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl, and heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), wherein said alkyl or aryl groups are  
30 substituted with 0-2 substituents selected from the  
group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,  
Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;
- alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
35 membered heterocyclic aromatic or non-aromatic ring  
system containing 1-3 heteroatoms selected from N, O  
and S and R<sup>23</sup> is defined as above or R<sup>21</sup>, R<sup>22</sup>, and R<sup>23</sup>  
can be taken together to form a heterobicyclic ring

system containing 1-3 heteroatoms selected from N, O and S, wherein said heterocyclic or heterobicyclic ring being substituted with 0-2 groups selected from C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, halo, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

5

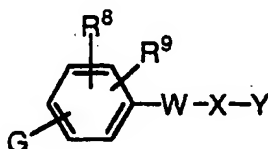
h is 0-4;  
i is 0-2;  
k is 2-6;  
m is 1-4;  
10 n is 0-5;  
q is 2-3;  
r is 0-3;  
t is 1-3; and  
p is 0-2;

15

provided that h, i, m, n, q, r, t, and p at each occurrence, are chosen such that the number of in-chain atoms between Y and the pyrimidine, pyrimidone, triazine or triazinone of G is in the range of 8-12.

20

[3] Preferred compounds of the invention as described above are compounds of Formula (IA):

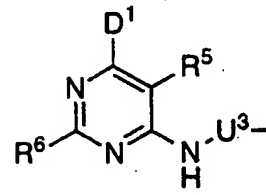
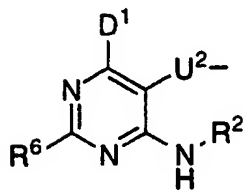
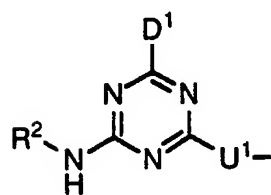
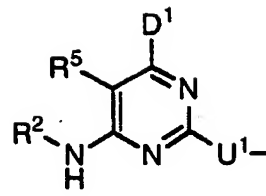
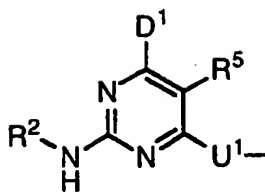
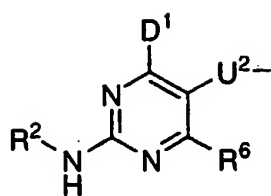


25

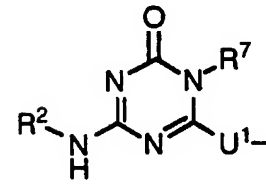
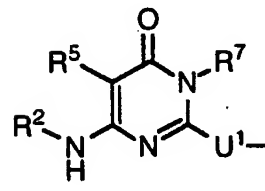
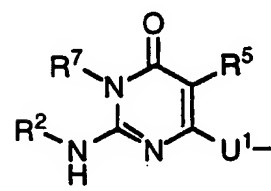
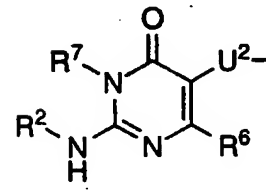
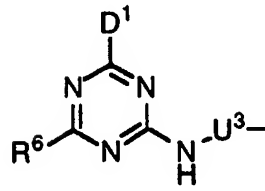
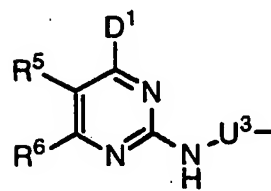
(IA)

including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or prodrug forms thereof, wherein:

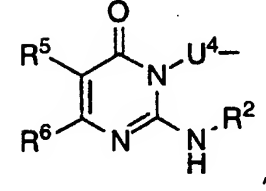
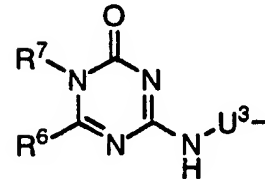
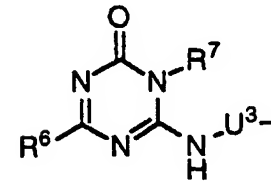
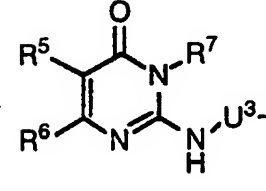
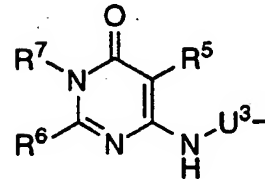
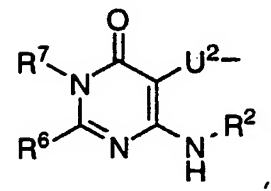
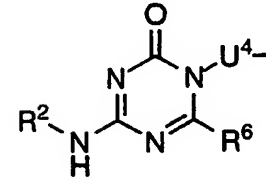
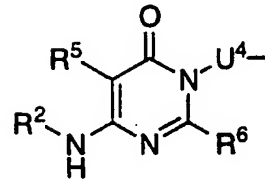
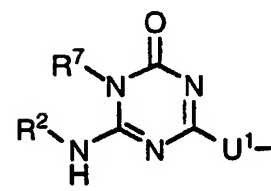
30 G is a meta or para substituent with respect to W and is selected from:

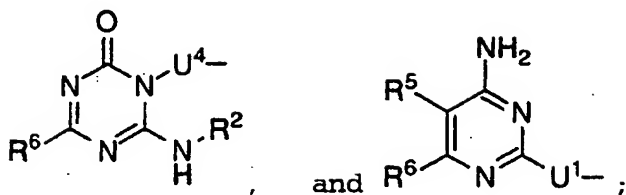


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10





D<sup>1</sup> is selected from: NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, SR<sup>3</sup>, F, Cl, Br, CF<sub>3</sub>, methyl,  
 5 ethyl, propyl, and butyl;

R<sup>2</sup> at each occurrence is independently selected from:

H, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub>  
 alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub>  
 10 alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>  
 cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
 alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
 alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
 15 alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, aryl(C<sub>0</sub>-C<sub>6</sub>  
 alkyl)sulfonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl,  
 aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub>  
 alkoxy)carbonyl, wherein said aryl or heteroaryl groups  
 are substituted with 0-2 substituents independently  
 selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
 20 alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>3</sup> at each occurrence is independently selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub>  
 alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub>  
 25 alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>  
 cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
 alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
 alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
 alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and  
 30 heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or  
 heteroaryl groups are substituted with 0-2 substituents  
 independently selected from the group consisting of C<sub>1</sub>-  
 C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>4</sup> is selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>  
alkoxycarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
5 alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and  
heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or  
heteroaryl groups are substituted with 0-2 substituents  
10 independently selected from the group consisting of C<sub>1</sub>-  
C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>2</sup> and R<sup>4</sup> when both substituents on the same  
nitrogen atom as in (-NR<sup>2</sup>R<sup>4</sup>) can be taken together with  
15 the nitrogen atom to which they are attached to form a  
heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl,  
thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said  
heterocycle being optionally substituted with 0-3  
20 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxycarbonyl,  
C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub>  
alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub>  
25 alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub>  
alkylsulfonyl, arylsulfonyl, and heteroarylsulfonyl;

R<sup>5</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, NO<sub>2</sub>, NO, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub>  
30 cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), or  
heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl and  
heteroaryl groups are substituted with 0-2 substituents  
independently selected from the group consisting of C<sub>1</sub>-  
C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

35

alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent  
carbon atoms, are taken together with the carbon atoms  
to which they are attached to form a 5-7 membered

heterocyclic ring containing 1, 2 or 3 nitrogen atoms,  
said heterocyclic ring being aromatic or nonaromatic,  
said heterocyclic ring being substituted with 0-2  
substituents independently selected from the group  
5 consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
NO<sub>2</sub>, and phenyl, wherein said phenyl group is  
substituted with 0-2 substituents independently  
selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

10

R<sup>6</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl),  
heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>, F, Cl, and Br, wherein  
said aryl or heteroaryl groups are substituted with 0-2  
15 substituents independently selected from the group  
consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
and NO<sub>2</sub>;

alternatively, R<sup>5</sup> and R<sup>6</sup>, when substituents on adjacent  
20 carbon atoms, are taken together with the carbon atoms  
to which they are attached to form a 5-7 membered  
heterocyclic ring containing 1, 2 or 3 nitrogen atoms  
or a 5-7 membered carbocyclic ring, said carbocyclic or  
heterocyclic ring being aromatic or nonaromatic, said  
25 carbocyclic or heterocyclic ring being substituted with  
0-2 substituents independently selected from the group  
consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
NO<sub>2</sub> and phenyl, wherein said phenyl groups are  
substituted with 0-2 substituents independently  
30 selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>7</sup> is selected from:

H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub>  
35 alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl  
or heteroaryl groups are substituted with 0-2  
substituents independently selected from the group

consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent  
 5 atoms, are taken together with the atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents  
 10 independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and phenyl, wherein said phenyl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

U<sup>1</sup> is selected from:  
 - (CH<sub>2</sub>)<sub>n</sub>-,  
 -O-(CH<sub>2</sub>)<sub>m</sub>-,  
 20 - (CH<sub>2</sub>)<sub>m</sub>-O-,  
 - (CH<sub>2</sub>)<sub>m</sub>-N(R<sup>3</sup>)-,  
 -S-(CH<sub>2</sub>)<sub>m</sub>-,  
 - (CH<sub>2</sub>)<sub>m</sub>-S-,  
 - (CH<sub>2</sub>)<sub>m</sub>-S(=O)-,  
 25 - (CH<sub>2</sub>)<sub>m</sub>-S(=O)<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-C(=O)-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,  
 30 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,  
 - (CH<sub>2</sub>)<sub>t</sub>-O-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-S-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-CH<sub>2</sub>-,  
 35 -CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-S-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-S(=O)-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-S(=O)<sub>2</sub>-(CH<sub>2</sub>)<sub>t</sub>-,



- $-\text{CH}_2-\text{N}(\text{R}^3)-(\text{CH}_2)_t-$ ,  
 $-\text{C}(=\text{O})-\text{N}(\text{R}^4)-(\text{CH}_2)_t-$ ,  
 $-\text{N}(\text{R}^4)-$ ,  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_m-$ ,  
5  $-\text{N}(\text{R}^4)-(\text{CH}_2)_q-\text{N}(\text{R}^3)-$ ,  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_q-\text{O}-$ ,  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_q-\text{S}-$ ,  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_q-\text{S}(\text{O})-$ ,  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_q-\text{S}(\text{O})_2-$ ,  
10  $-\text{N}(\text{R}^4)-\text{C}(=\text{O})-(\text{CH}_2)_r-$ , and  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_t-\text{C}(=\text{O})-$ ;

$\text{U}^2$  is selected from:

- $-(\text{CH}_2)_h-$ ,  
15  $-\text{O}-(\text{CH}_2)_r-$ ,  
 $-(\text{CH}_2)_r-\text{O}-$ ,  
 $-(\text{CH}_2)_r-\text{N}(\text{R}^3)-$ ,  
 $-\text{S}-(\text{CH}_2)_r-$ ,  
 $-(\text{CH}_2)_r-\text{S}-$ ,  
20  $-(\text{CH}_2)_r-\text{S}(=\text{O})-$ ,  
 $-(\text{CH}_2)_r-\text{S}(=\text{O})_2-$ ,  
 $-(\text{CH}_2)_i-\text{N}(\text{R}^3)-\text{CH}_2-$ ,  
 $-(\text{CH}_2)_i-\text{N}(\text{R}^3)-\text{C}(=\text{O})-$ ,  
 $-(\text{CH}_2)_i-\text{N}(\text{R}^3)-\text{S}(=\text{O})_2-$ ,  
25  $-(\text{CH}_2)_i-\text{C}(=\text{O})-\text{N}(\text{R}^3)-$ ,  
 $-(\text{CH}_2)_i-\text{S}(=\text{O})_2-\text{N}(\text{R}^3)-$ ,  
 $-(\text{CH}_2)_i-\text{O}-\text{CH}_2-$ ,  
 $-(\text{CH}_2)_i-\text{S}-\text{CH}_2-$ ,  
 $-(\text{CH}_2)_i-\text{S}(=\text{O})-\text{CH}_2-$ ,  
30  $-(\text{CH}_2)_i-\text{S}(=\text{O})_2-\text{CH}_2-$ ,  
 $-\text{CH}_2-\text{O}-(\text{CH}_2)_i-$ ,  
 $-\text{CH}_2-\text{S}-(\text{CH}_2)_i-$ ,  
 $-\text{CH}_2-\text{S}(=\text{O})-(\text{CH}_2)_i-$ ,  
 $-\text{CH}_2-\text{S}(=\text{O})_2-(\text{CH}_2)_i-$ ,  
35  $-\text{CH}_2-\text{N}(\text{R}^3)-(\text{CH}_2)_i-$ ,  
 $-\text{C}(=\text{O})-\text{N}(\text{R}^4)-(\text{CH}_2)_i-$ ,  
 $-\text{N}(\text{R}^4)-$ ,  
 $-\text{N}(\text{R}^4)-(\text{CH}_2)_r-$ ,

$-\text{N}(\text{R}^4) - (\text{CH}_2)_2 - \text{N}(\text{R}^3) -$ ,  
 $-\text{N}(\text{R}^4) - (\text{CH}_2)_2 - \text{O} -$ ,  
 $-\text{N}(\text{R}^4) - (\text{CH}_2)_2 - \text{S} -$ ,  
 $-\text{N}(\text{R}^4) - (\text{CH}_2)_2 - \text{S}(\text{O}) -$ ,  
5  $-\text{N}(\text{R}^4) - (\text{CH}_2)_2 - \text{S}(\text{O})_2 -$ ,  
 $-\text{N}(\text{R}^4) - \text{C}(=\text{O}) - (\text{CH}_2)_i -$ , and  
 $-\text{N}(\text{R}^4) - (\text{CH}_2)_t - \text{C}(=\text{O}) -$ ;

10  $\text{U}^3$  is selected from:  
 $-(\text{CH}_2)_h -$ ,  
 $-(\text{CH}_2)_q - \text{O} -$ ,  
 $-(\text{CH}_2)_q - \text{N}(\text{R}^3) -$ ,  
 $-(\text{CH}_2)_q - \text{N}(\text{R}^3) - \text{C}(=\text{O}) -$ ,  
 $-(\text{CH}_2)_t - \text{C}(=\text{O}) - \text{N}(\text{R}^3) -$ ,  
15  $-(\text{CH}_2)_q - \text{S} -$ ,  
 $-(\text{CH}_2)_q - \text{S}(\text{O}) -$ ,  
 $-(\text{CH}_2)_q - \text{S}(\text{O})_2 -$ ,  
 $-(\text{CH}_2)_q - \text{S}(\text{O})_2 - \text{N}(\text{R}^3) -$ ,  
 $-(\text{CH}_2)_q - \text{N}(\text{R}^3) - \text{S}(\text{O})_2 -$ ,  
20  $-(\text{CH}_2)_q - \text{N}(\text{R}^3) - \text{CH}_2 -$ ,  
 $-(\text{CH}_2)_q - \text{O} - \text{CH}_2 -$ ,  
 $-(\text{CH}_2)_h - \text{C}(=\text{O}) -$ ,  
 $-\text{C}(=\text{O}) - (\text{CH}_2)_r -$ , and  
 $-\text{C}(=\text{O}) - \text{N}(\text{R}^4) - (\text{CH}_2)_p$ ;

25  $\text{U}^4$  is selected from:  
 $-(\text{CH}_2)_h -$ ,  
 $-(\text{CH}_2)_2 - \text{O} -$ ,  
 $-(\text{CH}_2)_2 - \text{N}(\text{R}^3) -$ ,  
30  $-(\text{CH}_2)_2 - \text{S} -$ ,  
 $-(\text{CH}_2)_2 - \text{S}(\text{O}) -$ ,  
 $-(\text{CH}_2)_2 - \text{S}(\text{O})_2 -$ ,  
 $-(\text{CH}_2)_2 - \text{O} - \text{CH}_2 -$ ,  
 $-(\text{CH}_2)_r - \text{C}(=\text{O}) -$ ,  
35  $-\text{C}(=\text{O}) - (\text{CH}_2)_r -$ , and  
 $-\text{C}(=\text{O}) - \text{N}(\text{R}^4) - (\text{CH}_2)_r$ ;

R<sup>8</sup> and R<sup>9</sup> are independently selected from: H, C<sub>1</sub>-C<sub>4</sub> alkyl, CF<sub>3</sub>, F, Cl, Br, and OR<sup>10</sup>;

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

5 H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl,  
10 Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to  
15 form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and  
20 heteroarylsulfonyl;  
25

W is -(CHR<sup>12</sup>)<sub>p</sub>C(=O)N(R<sup>13</sup>)- or -C(=O)-N(R<sup>13</sup>)-(CHR<sup>12</sup>)<sub>p</sub>-;

30 X is -CH(R<sup>14</sup>)-CHR<sup>12</sup>- or -CHR<sup>12</sup>-CH(R<sup>15</sup>)-;

R<sup>12</sup> at each occurrence is independently selected from:  
H, or C<sub>1</sub>-C<sub>6</sub> alkyl;

35 R<sup>13</sup> is selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl and heteroaryl groups are substituted with 0-2

substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

5 R<sup>14</sup> is selected from:

H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), R<sup>17</sup>R<sup>20</sup>NC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>R<sup>20</sup>N(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above  
10 alkyl, cycloalkyl, aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

20 R<sup>15</sup> is selected from:

-NH-C(=O)-O-R<sup>17</sup>,  
-NH-C(=O)-R<sup>17</sup>,  
-NH-C(=O)-NH-R<sup>17</sup>,  
-NHSO<sub>2</sub>-R<sup>17</sup>, and  
25 -NHSO<sub>2</sub>-NR<sup>20</sup>R<sup>17</sup>;

Y is -C(=O)R<sup>19</sup>;

R<sup>17</sup> is selected from:

30 C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), and heteroarylheteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl or heteroaryl groups are optionally  
35 substituted with 0-3 substituents independently selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>19</sup> is selected from:

- hydroxy,
- C<sub>1</sub>-C<sub>10</sub> alkyloxy,
- C<sub>3</sub>-C<sub>10</sub> cycloalkyloxy,
- 5 aryloxy,
- aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)-,
- C<sub>2</sub>-C<sub>10</sub> alkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- 10 C<sub>3</sub>-C<sub>10</sub> cycloalkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- aryloxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- aryloxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- 15 arylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- C<sub>1</sub>-C<sub>5</sub> alkoxy(C<sub>1</sub>-C<sub>5</sub> alkyl)carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,
- (5-(C<sub>1</sub>-C<sub>5</sub> alkyl)-1,3-dioxo-cyclopenten-2-one-yl)methyloxy,
- (5-aryl-1,3-dioxo-cyclopenten-2-one-yl)methyloxy,
- 20 (R<sup>10</sup>) (R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)- and
- O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>)(R<sup>22</sup>)(R<sup>23</sup>)Z<sup>-</sup>;

R<sup>20</sup> is selected from H, methyl, ethyl, propyl, and butyl;

- 25 Z<sup>-</sup> is a pharmaceutically acceptable anion selected from
- halide, bisulfate, sulfate, hydrogenphosphate,
- phosphate, toluenesulfonate, methanesulfonate,
- ethanesulfonate, acetate, trifluoroacetate, citrate,
- oxalate, succinate, and malonate;

30

R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:

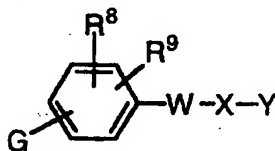
- H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)-, aryl,
- aryl(C<sub>1</sub>-C<sub>6</sub> alkyl)-, heteroaryl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub>
- 35 alkyl)- wherein said alkyl or aryl groups are
- substituted with 0-2 substituents selected from the
- group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,
- Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively  $R^{21}$  and  $R^{22}$  can be taken together to form a 5-7 membered heterocyclic aromatic or non-aromatic ring system containing 1-3 heteroatoms selected from N, O and S and  $R^{23}$  is defined as above or  $R^{21}$ ,  $R^{22}$ , and  $R^{23}$  can be taken together to form a heterobicyclic ring system containing 1-3 heteroatoms selected from N, O and S, wherein said heterocyclic or heterobicyclic ring being substituted with 0-2 groups selected from  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  alkoxy, halo, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

h is 0-4;  
i is 0-2;  
k is 2-6;  
m is 1-4;  
n is 0-5;  
q is 2-3;  
r is 0-3;  
t is 1-3; and  
p is 0-2;

provided that h, i, m, n, q, r, t, and p at each occurrence, are chosen such that the number of in-chain atoms between Y and the pyrimidine, pyrimidone, triazine or triazinone of G is in the range of 8-12.

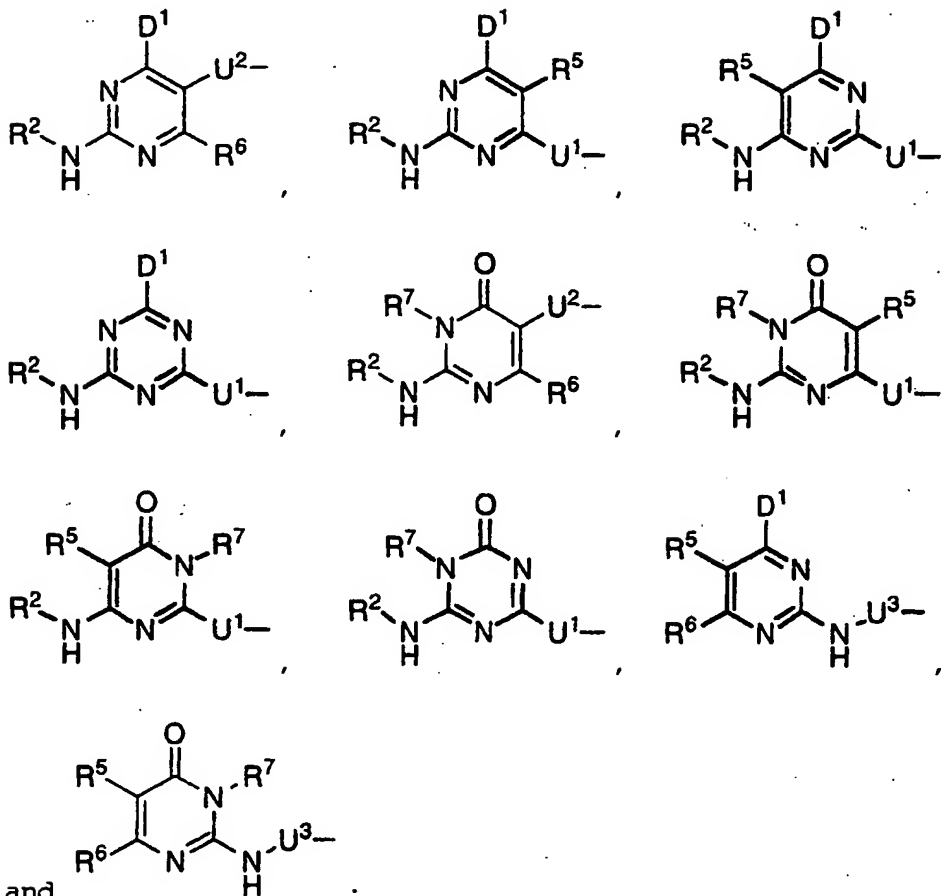
[4] Further preferred compounds of the invention as described above are compounds of the Formula (IA):



(IA)

including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or prodrug forms thereof, wherein:

G is a *meta* or *para* substituent with respect to W and is selected from:



D<sup>1</sup> is NR<sup>2</sup>R<sup>4</sup> or OR<sup>3</sup>;

15 R<sup>2</sup> at each occurrence is independently selected from:  
H, methyl, ethyl, propyl, butyl, (C<sub>1</sub>-C<sub>4</sub> alkyl)carbonyl,  
(C<sub>1</sub>-C<sub>4</sub> alkoxy)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, and C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl;

20 R<sup>3</sup> is selected from: H, methyl, ethyl, propyl, and butyl;

R<sup>4</sup> is selected from: H, methyl, ethyl, propyl, butyl  
cyclopropyl, and cyclopropylmethyl;

R<sup>5</sup> is selected from H, NR<sup>2</sup>R<sup>4</sup>, methyl, ethyl, propyl, butyl, pentyl, and hexyl;

alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent  
5 carbon atoms, are taken together with the carbon atoms  
to which they are attached to form a 5-6 membered  
heterocyclic ring containing 1, 2 or 3 nitrogen atoms,  
wherein -NHR<sup>2</sup>-R<sup>5</sup>- taken together are selected from the  
group -NH-CH=N-, -NH-N=N-, -NH-N=C-, -NH-CH=CH-,  
10 -NH-CH<sub>2</sub>-CH<sub>2</sub>-, -NH-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-, and -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH-,

R<sup>6</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, methyl, ethyl, propyl, butyl, pentyl,  
hexyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>,  
15 F, Cl, and Br, wherein said aryl or heteroaryl groups  
are substituted with 0-2 substituents independently  
selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -R<sup>5</sup> and -R<sup>6</sup>, when substituents on adjacent  
20 carbon atoms, are taken together with the carbon atoms  
to which they are attached to form a 6 membered  
heterocyclic ring containing 1 or 2 nitrogen atoms or a  
5-6 membered carbocyclic ring, wherein -R<sup>5</sup>-R<sup>6</sup>- taken  
25 together are selected from the group -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-,  
-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-, -CH=CH-CH=CH-, -N=CH-CH=CH-,  
-N=CH-CH=N-, -N=CH-N=CH-, and -N=N-CH=CH-;

R<sup>7</sup> is selected from:

30 H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub>  
alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
wherein said aryl or heteroaryl groups are substituted  
with 0-2 substituents independently selected from the  
group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl,  
35 Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent  
atoms, are taken together with the atoms to which they



are attached to form a 5-6 membered heterocyclic ring containing 2 or 3 nitrogen atoms, wherein  $-NHR^2-R^7-$  taken together are selected from the group  $-NH-CH=N-$ ,  $-NH-N=N-$ ,  $-NH-N=C-$ ,  $-NH-CH=CH-$ ,  $-NH-CH_2-CH_2-$ ,  
 5  $-NH-CH_2-CH_2-CH_2-$ ,  $-NH-CH_2-CH_2-NH-$ ,  $-N=CH-CH=CH-$ ,  
 $-N=CH-CH=N-$ ,  $-N=CH-N=CH-$ , and  $-N=N-CH=CH-$ ;

$U^1$  is selected from:

- 10  $-(CH_2)_n-$ ,  
 $-O-(CH_2)_m-$ ,  
 $-(CH_2)_m-O-$ ,  
 $-(CH_2)_m-N(R^3)-$ ,  
 $-(CH_2)_t-N(R^3)-CH_2-$ ,  
 $-(CH_2)_t-O-CH_2-$ ,  
 15  $-CH_2-O-(CH_2)_t-$ ,  
 $-CH_2-N(R^3)-(CH_2)_t-$ , and  
 $-N(R^4)-(CH_2)_m-$ ;

$U^2$  is selected from:

- 20  $-(CH_2)_h-$ ,  
 $-O-(CH_2)_r-$ ,  
 $-(CH_2)_r-O-$ ,  
 $-(CH_2)_r-N(R^3)-$ ,  
 $-(CH_2)_i-N(R^3)-CH_2-$ ,  
 25  $-(CH_2)_i-O-CH_2-$ ,  
 $-CH_2-O-(CH_2)_i-$ ,  
 $-CH_2-N(R^3)-(CH_2)_i-$ , and  
 $-N(R^4)-(CH_2)_r-$ ;

30  $U^3$  is selected from:

- $-(CH_2)_h-$ ,  
 $-(CH_2)_q-O-$ ,  
 $-(CH_2)_q-N(R^3)-$ ,  
 $-(CH_2)_q-N(R^3)-CH_2-$ , and  
 35  $-(CH_2)_q-O-CH_2-$ ;

$R^8$  and  $R^9$  are independently selected from: H, methyl, ethyl, propyl, butyl,  $CF_3$ , F, Cl, Br, and  $OR^{10}$ ;

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
5 wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

10 alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-  
15 pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl, said heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl,  
20 C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and heteroarylsulfonyl;

25 W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

30 R<sup>13</sup> is H or methyl;

R<sup>14</sup> is selected from:

H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl),  
35 aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub>

alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and  
R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above  
5 alkyl, cycloalkyl, aryl or heteroaryl groups are  
substituted with 0-2 substituents independently  
selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>15</sup> is selected from:  
10 -NH-C(=O)-O-R<sup>17</sup>,  
-NH-C(=O)-R<sup>17</sup>,  
-NH-C(=O)-NH-R<sup>17</sup>,  
-NHSO<sub>2</sub>-R<sup>17</sup>, and  
-NHSO<sub>2</sub>-NHR<sup>17</sup>;

15 Y is -C(=O)R<sup>19</sup>;

R<sup>17</sup> is selected from:  
C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
20 heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), and heteroarylheteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
said aryl or heteroaryl groups are optionally  
substituted with 0-3 substituents independently  
25 selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>19</sup> is selected from:  
hydroxy,  
30 C<sub>1</sub>-C<sub>10</sub> alkoxy,  
methylcarbonyloxymethoxy-,  
ethylcarbonyloxymethoxy-,  
t-butylcarbonyloxymethoxy-,  
cyclohexylcarbonyloxymethoxy-,  
35 1-(methylcarbonyloxy)ethoxy-,  
1-(ethylcarbonyloxy)ethoxy-,  
1-(t-butylcarbonyloxy)ethoxy-,  
1-(cyclohexylcarbonyloxy)ethoxy-,

- i*-propyloxycarbonyloxymethoxy-,  
t-butyloxycarbonyloxymethoxy-,  
1-(*i*-propyloxycarbonyloxy)ethoxy-,  
1-(cyclohexyloxycarbonyloxy)ethoxy-,  
5 1-(t-butyloxycarbonyloxy)ethoxy-,  
dimethylaminoethoxy-,  
diethylaminoethoxy-,  
(5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
(5-(t-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
10 (1,3-dioxa-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
(R<sup>10</sup>) (R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and  
-O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>) (R<sup>22</sup>) (R<sup>23</sup>)Z<sup>-</sup>;
- 15 Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
ethanesulfonate, acetate, trifluoroacetate, citrate,  
oxalate, succinate, and malonate;
- 20 R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:  
H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
alkyl), phenyl, benzyl, wherein said phenyl group is  
substituted with 0-2 substituents selected from the  
25 group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,  
Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

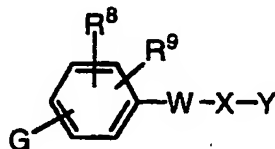
alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
membered heterocyclic aromatic or non-aromatic ring  
30 system containing 1-2 heteroatoms selected from N, O  
and S and R<sup>23</sup> is defined as above or R<sup>21</sup>, R<sup>22</sup>, and R<sup>23</sup>  
can be taken together to form a heterobicyclic ring  
system containing 1-2 heteroatoms selected from N, O  
and S;

- 35 h is 0-4;  
i is 0-2;  
k is 2-6;

- m is 1-4;  
 n is 0-5;  
 q is 2-3;  
 r is 0-3; and  
 5 t is 1-3;

provided that h, i, m, n, q, r, and t, at each  
 occurrence, are chosen such that the number of in-chain  
 atoms between Y and the pyrimidine, pyrimidone,  
 10 triazine or triazinone of G is in the range of 8-12.

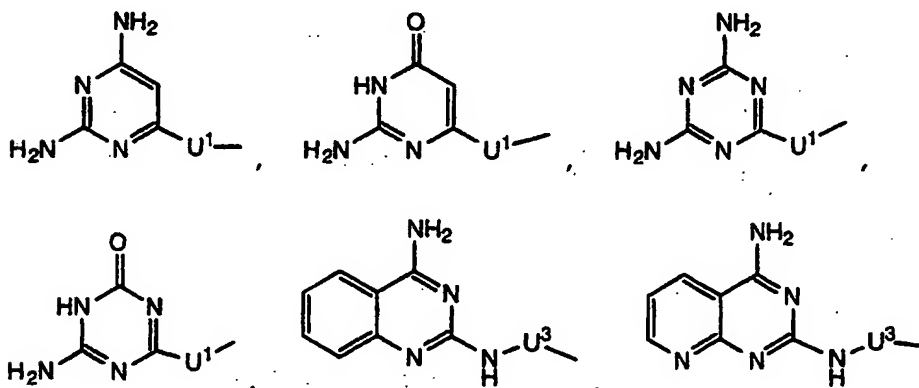
[5] Still further preferred compounds of the above  
 invention as described above are compounds of the Formula  
 (IA):

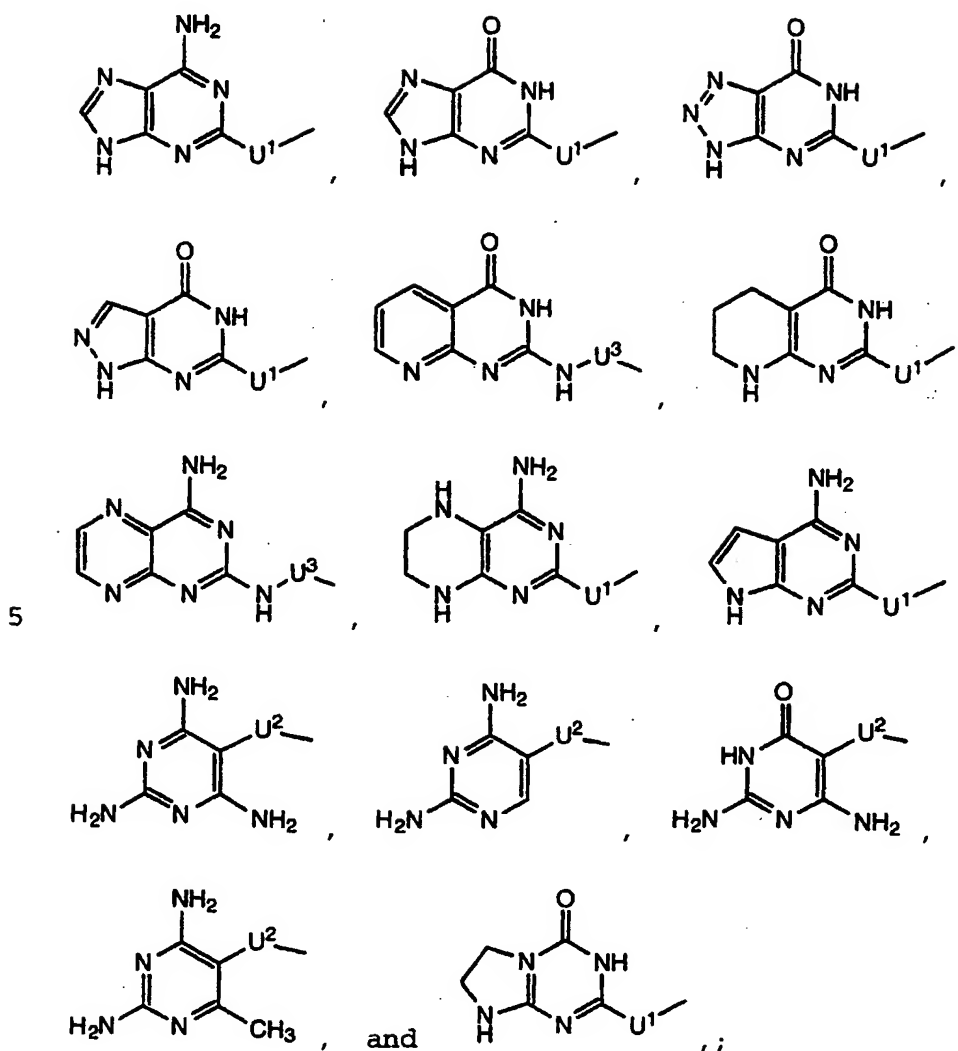


(IA)

including stereoisomeric forms thereof, tautomeric forms  
 thereof, pharmaceutically acceptable salt forms thereof or  
 prodrug forms thereof, wherein:

20 G is a meta or para substituent with respect to W and is  
 selected from:





U<sup>1</sup> is selected from: -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -NH-CH<sub>2</sub>-, and -NH-CH<sub>2</sub>CH<sub>2</sub>-;

15 U<sup>2</sup> is selected from: -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -NH-CH<sub>2</sub>-, and -NH-CH<sub>2</sub>CH<sub>2</sub>-;

U<sup>3</sup> is -CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-;

20 R<sup>8</sup> is selected from: H, methyl, ethyl, propyl, butyl, -OH, methoxy, ethoxy, F, Cl, Br, and CF<sub>3</sub>;

R<sup>9</sup> is H,

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>4</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and  
5 heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

10 alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-  
15 pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl;

W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

20 X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

R<sup>13</sup> is H, methyl, ethyl, propyl, butyl, pentyl, or hexyl;

R<sup>14</sup> is selected from:

25 C<sub>2</sub>-C<sub>8</sub> alkenyl, C<sub>2</sub>-C<sub>8</sub> alkynyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above alkyl, cycloalkyl, aryl or heteroaryl groups are  
30 substituted with 0-2 substituents independently selected from the group consisting of methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy, butoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

35 R<sup>15</sup> is selected from:

-NH-C(=O)-O-R<sup>17</sup>,  
-NHSO<sub>2</sub>-R<sup>17</sup> and  
-NHSO<sub>2</sub>-NHR<sup>17</sup>;

Y is -C(=O)R<sup>19</sup>;

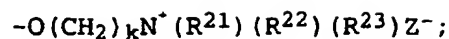
R<sup>17</sup> is selected from:

- 5 methyl, ethyl, propyl, butyl, pentyl, hexyl,  
cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl,  
phenylmethyl, phenylethyl, phenylpropyl, phenylbutyl,  
heteroaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, arylaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-,  
heteroarylaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, arylheteroaryl(C<sub>1</sub>-C<sub>3</sub>  
10 alkyl)-, heteroarylheteroaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, heteroaryl,  
and aryl, wherein said aryl or heteroaryl groups are  
optionally substituted with 0-3 substituents  
independently selected from the group consisting of:  
methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy,  
15 butoxy, phenyl, F, Cl, Br, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

R<sup>19</sup> is selected from:

- hydroxy, methoxy, ethoxy, propoxy, butoxy,  
methylcarbonyloxymethoxy-,  
20 ethylcarbonyloxymethoxy-,  
t-butylcarbonyloxymethoxy-,  
cyclohexylcarbonyloxymethoxy-,  
1-(methylcarbonyloxy)ethoxy-,  
1-(ethylcarbonyloxy)ethoxy-,  
25 1-(t-butylcarbonyloxy)ethoxy-,  
1-(cyclohexylcarbonyloxy)ethoxy-,  
i-propyloxycarbonyloxymethoxy-,  
t-butyloxycarbonyloxymethoxy-,  
1-(i-propyloxycarbonyloxy)ethoxy-,  
30 1-(cyclohexyloxycarbonyloxy)ethoxy-,  
1-(t-butyloxycarbonyloxy)ethoxy-,  
dimethylaminoethoxy-,  
diethylaminoethoxy-,  
(5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
35 (5-(t-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
(1,3-dioxa-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
(R<sup>10</sup>)(R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and





5  $Z^-$  is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
ethanesulfonate, acetate, trifluoroacetate, citrate,  
oxalate, succinate, and malonate;

10  $R^{21}$ ,  $R^{22}$  and  $R^{23}$  are independently selected from: H, methyl,  
ethyl, propyl and butyl;

alternatively  $R^{21}$  and  $R^{22}$  can be taken together to form a 5-7  
15 membered heterocyclic ring system containing 1-2  
heteroatoms selected from N, O and S and  $R^{23}$  is defined  
as above;

h is 0-4;  
i is 0-2;  
k is 2-6;  
20 m is 1-4;  
n is 0-5;  
q is 2-3;  
r is 0-3; and  
t is 1-3;

25 provided that h, i, m, n, q, r, and t, at each  
occurrence, are chosen such that the number of in-chain  
atoms between Y and the pyrimidine, pyrimidone,  
triazine or triazinone of G is in the range of 8-12.

30 [6] Specifically preferred compounds of the above  
invention are compounds including enantiomeric or

35 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2-  
aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)]-  
aminopropionic acid sodium salt,

- 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 5 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 10 2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 15 2-[(S)-(i-Butyloxycarbonyl)amino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 20 2-[(S)-(n-Butyloxycarbonyl)amino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 25 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenylcarbonyl)-aminopropionic acid trifluoroacetate salt,
- 30 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenylcarbonyl)aminopropionic acid trifluoroacetate salt,
- 35 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenylcarbonyl)aminopropionic acid trifluoroacetate salt,

- 2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(2,4-diamino-  
pyrimidin-6-yl)ethylphenylcarbonyl)]aminopropionic acid  
trifluoroacetate salt,
- 5 2-[(S)-i-Butyloxycarbonylamino]-3-[4-(2-(2,4-  
diaminopyrimidin-6-yl)ethylphenylcarbonyl)]-  
aminopropionic acid trifluoroacetate salt,
- 10 2-[(S)-n-Butyloxycarbonylamino]-3-[4-(2-(2,4-  
diaminopyrimidin-6-yl)ethylphenylcarbonyl)]-  
aminopropionic acid trifluoroacetate salt,
- 15 2-[(S)-Benzyloxycarbonylamino]-3-[4-(2-(2,4-  
diaminopyrimidin-6-yl)ethylphenylcarbonyl)]-  
aminopropionic acid trifluoroacetate salt,
- 20 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-  
(2,4-diaminotriazin-6-yl)ethylphenylcarbonyl)]-  
aminopropionic acid,
- 25 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(4-  
aminoquinazolin-2-yl)aminomethylphenylcarbonyl)]-  
aminopropionic acid,
- 30 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(4-aminoquinazolin-2-  
yl)aminomethylphenylcarbonyl)]aminopropionic acid,
- 35 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(4-aminoquinazolin-2-  
yl)aminomethylphenylcarbonyl)]aminopropionic acid,
- 2-[(S)-i-Butyloxycarbonylamino]-3-[4-(2-(4-  
aminoquinazolin-2-yl)aminomethylphenylcarbonyl)]-  
aminopropionic acid,

2-[(S)-n-Butyloxycarbonylamino]-3-[4-(2-(4-aminoquinazolin-2-yl)aminomethylphenylcarbonyl)-aminopropionic acid,

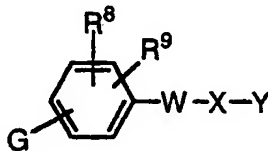
5 2-[(S)-Benzyloxycarbonylamino]-3-[4-(2-(4-aminoquinazolin-2-yl)aminomethylphenylcarbonyl)aminopropionic acid,

and ester forms thereof, said ester being selected from the group consisting of:

10 methyl,  
ethyl,  
isopropyl,  
n-butyl,  
isobutyl,  
15 benzyl,  
methylcarbonyloxymethyl,  
ethylcarbonyloxymethyl,  
tert-butylcarbonyloxymethyl,  
cyclohexylcarbonyloxymethyl,  
20 tert-butyloxycarbonyloxymethyl,  
dimethylaminoethyl,  
diethylaminoethyl,  
morpholinoethyl,  
pyrrolidinoethyl,  
25 trimethylammonioethyl, and  
2-(1-methylmorpholinium-1-yl)ethyl.

[7] In a second embodiment preferred compounds of the invention as described above are compounds of the Formula

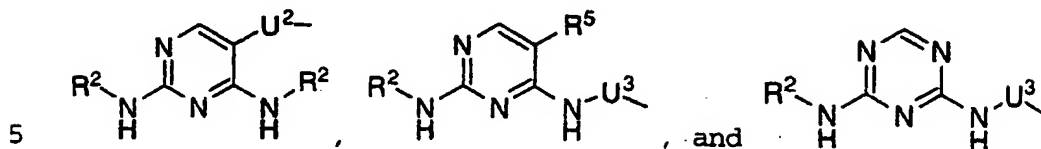
30 (IA):



(IA)

including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or  
35 prodrug forms thereof, wherein:

G is a *meta* or *para* substituent with respect to W and is selected from:



R<sup>2</sup> at each occurrence is independently selected from:

H, methyl, ethyl, propyl, butyl, (C<sub>1</sub>-C<sub>4</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>4</sub> alkoxy)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, and C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl;

R<sup>4</sup> is selected from: H, methyl, ethyl, propyl, butyl cyclopropyl, and cyclopropylmethyl;

R<sup>5</sup> is selected from H, NR<sup>2</sup>R<sup>4</sup>, methyl, ethyl, propyl, butyl, pentyl, and hexyl;

U<sup>2</sup> is selected from:

20     -(CH<sub>2</sub>)<sub>h</sub>-,  
       -O-(CH<sub>2</sub>)<sub>r</sub>-,  
       -(CH<sub>2</sub>)<sub>r</sub>-O-,  
       -(CH<sub>2</sub>)<sub>r</sub>-N(R<sup>3</sup>)-,  
       -(CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,  
       -(CH<sub>2</sub>)<sub>i</sub>-O-CH<sub>2</sub>-,  
       -CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>i</sub>-,  
       -CH<sub>2</sub>-N(R<sup>3</sup>)-(CH<sub>2</sub>)<sub>i</sub>-, and  
       -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>r</sub>;

30     U<sup>3</sup> is selected from:

      -(CH<sub>2</sub>)<sub>h</sub>-,  
       -(CH<sub>2</sub>)<sub>q</sub>-O-,  
       -(CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-,  
       -(CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-, and  
       -(CH<sub>2</sub>)<sub>q</sub>-O-CH<sub>2</sub>-;

R<sup>8</sup> and R<sup>9</sup> are independently selected from: H, methyl, ethyl, propyl, butyl, CF<sub>3</sub>, F, Cl, Br, and OR<sup>10</sup>;

- 5 R<sup>10</sup> and R<sup>11</sup> are independently selected from:  
H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the  
10 group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

- alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together  
15 with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl, said heterocycle being optionally  
20 substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and heteroarylsulfonyl;

W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

30

X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

R<sup>13</sup> is H or methyl;

- 35 R<sup>14</sup> is selected from:

H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl),

C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
5 R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above alkyl, cycloalkyl, aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
10 alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>15</sup> is selected from:

-NH-C(=O)-O-R<sup>17</sup>,  
-NH-C(=O)-R<sup>17</sup>,  
15 -NH-C(=O)-NH-R<sup>17</sup>,  
-NHSO<sub>2</sub>-R<sup>17</sup>, and  
-NHSO<sub>2</sub>-NHR<sup>17</sup>;

Y is -C(=O)R<sup>19</sup>;

20

R<sup>17</sup> is selected from:

C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), and heteroarylheteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
25 said aryl or heteroaryl groups are optionally substituted with 0-3 substituents independently selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

30

R<sup>19</sup> is selected from:

hydroxy,  
C<sub>1</sub>-C<sub>10</sub> alkoxy,  
methylcarbonyloxymethoxy-,  
35 ethylcarbonyloxymethoxy-,  
t-butylcarbonyloxymethoxy-,  
cyclohexylcarbonyloxymethoxy-,  
1-(methylcarbonyloxy)ethoxy-,

1-(ethylcarbonyloxy)ethoxy-,  
 1-(*t*-butylcarbonyloxy)ethoxy-,  
 1-(cyclohexylcarbonyloxy)ethoxy-,  
*i*-propyloxy carbonyloxymethoxy-,  
 5 *t*-butyloxy carbonyloxymethoxy-,  
 1-(*i*-propyloxy carbonyloxy)ethoxy-,  
 1-(cyclohexyloxy carbonyloxy)ethoxy-,  
 1-(*t*-butyloxy carbonyloxy)ethoxy-,  
 dimethylaminoethoxy-,  
 10 diethylaminoethoxy-,  
 (5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
 (5-(*t*-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
 (1,3-dioxo-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
 1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
 15 (R<sup>10</sup>)(R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and  
 -O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>)(R<sup>22</sup>)(R<sup>23</sup>)Z<sup>-</sup>;

Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
 halide, bisulfate, sulfate, hydrogenphosphate,  
 20 phosphate, toluenesulfonate, methanesulfonate,  
 ethanesulfonate, acetate, trifluoroacetate, citrate,  
 oxalate, succinate, and malonate;

R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:  
 25 H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
 alkyl), phenyl, benzyl, wherein said phenyl group is  
 substituted with 0-2 substituents selected from the  
 group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,  
 Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

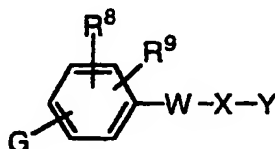
30 alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
 membered heterocyclic aromatic or non-aromatic ring  
 system containing 1-2 heteroatoms selected from N, O  
 and S and R<sup>23</sup> is defined as above or R<sup>21</sup>, R<sup>22</sup>, and R<sup>23</sup>  
 35 can be taken together to form a heterobicyclic ring  
 system containing 1-2 heteroatoms selected from N, O  
 and S;



- h is 0-4;  
 i is 0-2;  
 k is 2-6;  
 m is 1-4;  
 5 n is 0-5;  
 q is 2-3;  
 r is 0-3; and  
 t is 1-3;

- 10 provided that h, i, m, n, q, r, and t, at each occurrence, are chosen such that the number of in-chain atoms between Y and the pyrimidine or triazine of G is in the range of 8-12.

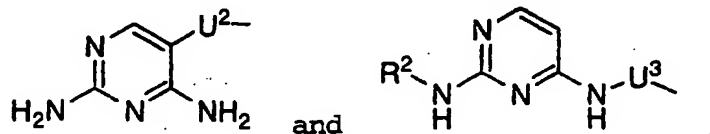
- 15 [8] Further preferred compounds of the above invention as described above are compounds of the Formula (IA):



(IA)

- 20 including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or prodrug forms thereof, wherein:

- 25 G is a meta or para substituent with respect to W and is selected from:



- 30 U<sup>2</sup> is selected from: -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -NH-CH<sub>2</sub>-, and -NH-CH<sub>2</sub>CH<sub>2</sub>-;

U<sup>3</sup> is -CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-;

R<sup>8</sup> is selected from: H, methyl, ethyl, propyl, butyl, -OH, methoxy, ethoxy, F, Cl, Br, and CF<sub>3</sub>;

R<sup>9</sup> is H,

5

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>4</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or  
10 heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same  
15 nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-  
20 piperazinyl;

W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

25

R<sup>13</sup> is H, methyl, ethyl, propyl, butyl, pentyl, or hexyl;

R<sup>14</sup> is selected from:

C<sub>2</sub>-C<sub>8</sub> alkenyl, C<sub>2</sub>-C<sub>8</sub> alkynyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the  
30 above alkyl, cycloalkyl, aryl or heteroaryl groups are substituted with 0-2 substituents independently  
35 selected from the group consisting of methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy, butoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>15</sup> is selected from:

-NH-C(=O)-O-R<sup>17</sup>,

-NHSO<sub>2</sub>-R<sup>17</sup> and

-NHSO<sub>2</sub>-NHR<sup>17</sup>;

5

Y is -C(=O)R<sup>19</sup>;

R<sup>17</sup> is selected from:

10 methyl, ethyl, propyl, butyl, pentyl, hexyl,  
cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl,  
phenylmethyl, phenylethyl, phenylpropyl, phenylbutyl,  
heteroaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, arylaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-,  
heteroarylaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, arylheteroaryl(C<sub>1</sub>-C<sub>3</sub>  
15 alkyl)-, heteroarylheteroaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, heteroaryl,  
and aryl, wherein said aryl or heteroaryl groups are  
optionally substituted with 0-3 substituents  
independently selected from the group consisting of:  
methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy,  
20 butoxy, phenyl, F, Cl, Br, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

20

R<sup>19</sup> is selected from:

hydroxy, methoxy, ethoxy, propoxy, butoxy,  
methylcarbonyloxymethoxy-,  
ethylcarbonyloxymethoxy-,  
25 t-butylcarbonyloxymethoxy-,  
cyclohexylcarbonyloxymethoxy-,  
1-(methylcarbonyloxy)ethoxy-,  
1-(ethylcarbonyloxy)ethoxy-,  
1-(t-butylcarbonyloxy)ethoxy-,  
30 1-(cyclohexylcarbonyloxy)ethoxy-,  
i-propyloxycarbonyloxymethoxy-,  
t-butyloxycarbonyloxymethoxy-,  
1-(i-propyloxycarbonyloxy)ethoxy-,  
1-(cyclohexyloxycarbonyloxy)ethoxy-,  
35 1-(t-butyloxycarbonyloxy)ethoxy-,  
dimethylaminoethoxy-,  
diethylaminoethoxy-,  
(5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,

(5-(*t*-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
(1,3-dioxa-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
(R<sup>10</sup>) (R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and  
5 -O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>) (R<sup>22</sup>) (R<sup>23</sup>)Z<sup>-</sup>;

Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
10 ethanesulfonate, acetate, trifluoroacetate, citrate,  
oxalate, succinate, and malonate;

R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from: H, methyl,  
ethyl, propyl and butyl;

15 alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
membered heterocyclic ring system containing 1-2  
heteroatoms selected from N, O and S and R<sup>23</sup> is defined  
as above;

20 h is 0-4;  
i is 0-2;  
k is 2-6;  
m is 1-4;  
25 n is 0-5;  
q is 2-3;  
r is 0-3; and  
t is 1-3;

30 provided that h, i, m, n, q, r, and t, at each  
occurrence, are chosen such that the number of in-chain  
atoms between Y and the pyrimidine, pyrimidone,  
triazine or triazinone of G is in the range of 8-12.

35 [9] Specifically preferred compounds of the above  
invention are compounds including enantiomeric forms,  
diasteriomeric forms or mixtures of enantiomeric or

diastereomeric forms thereof, and pharmaceutically acceptable salt forms thereof, selected from:

5 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]-aminopropionic acid,

10 2-[(S)-i-Butyloxycarbonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt,

15 2-[(S)-n-Butyloxycarbonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt,

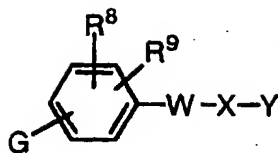
2-[(S)-Benzyloxycarbonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt, and

20 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt.

25 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt.

30 2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt.

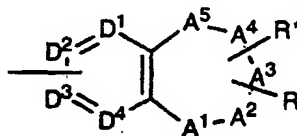
Generally, the compounds of this invention are comprised of a guanidine mimic "G" and an integrin antagonist template "T". The guanidine mimic comprises a substituted or unsubstituted pyrimidine, pyrimidone, triazinine or triazone ring, optionally fused, and a linking group U. Preferably, the integrin antagonist template "T" is



(IA)

as defined in the present invention. However, other  
 5 integrin antagonist templates disclosed herein as T<sub>1</sub> through  
 T<sub>14</sub> are included within the scope of the present invention  
 and summarized below.

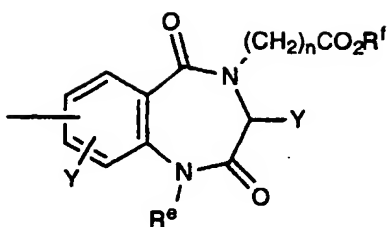
Template T<sub>1</sub>, disclosed in Bondinell, et al., WO 93/00095,  
 10 published January 7, 1993, is of the sub-formula (T<sub>1</sub>):



wherein, A<sup>1</sup> to A<sup>5</sup> form an accessible substituted seven-  
 membered ring, which may be saturated or unsaturated,  
 15 optionally containing up to two heteroatoms chosen from the  
 group of O, S and N wherein S and N may be optionally  
 oxidized; D<sup>1</sup> to D<sup>4</sup> form an accessible substituted six  
 membered ring, optionally containing up to two nitrogen  
 atoms; R, R<sup>\*</sup>, and all substituents therefrom are as defined  
 20 in the Bondinell specification. Suitably, with reference to  
 formula (T<sub>1</sub>); A<sup>1</sup> is CR<sup>1</sup>R<sup>1'</sup>, CR<sup>1</sup>, NR<sup>1</sup>, N, O or S(O)<sub>x</sub>; A<sup>2</sup> is  
 CR<sup>2</sup>R<sup>2'</sup>, CR<sup>2</sup>, NR<sup>2</sup>; A<sup>3</sup> is CR<sup>3</sup>R<sup>3'</sup>, CR<sup>3</sup>, NR<sup>3</sup>, N, O or S(O)<sub>x</sub>; A<sup>4</sup> is  
 CR<sup>4</sup>R<sup>4'</sup>, CR<sup>4</sup>, NR<sup>4</sup>, or N; A<sup>5</sup> is CR<sup>5</sup>R<sup>5'</sup>, CR<sup>5</sup>, NR<sup>5</sup>, N, O or S(O)<sub>x</sub>;  
 and D<sup>1</sup>-D<sup>4</sup> are CR<sup>11</sup>, CR<sup>6</sup> or N.

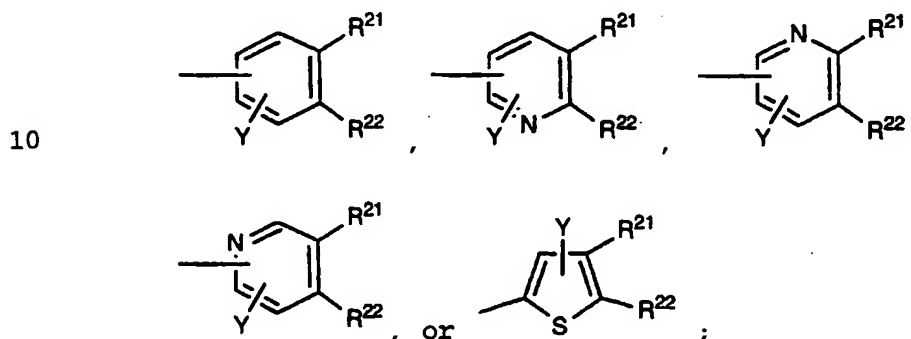
25 A preferred integrin antagonist template of sub-formula  
 (T<sub>1</sub>) is defined by Bondinell wherein A<sup>1</sup> equals N-R<sup>1</sup>, A<sup>2</sup>  
 equals CHCH<sub>2</sub>CO<sub>2</sub>H, A<sup>3</sup> equals C=O, A<sup>4</sup> equals N-R<sup>4</sup>, A<sup>5</sup> equals  
 CH<sub>2</sub>, and D<sup>1</sup> to D<sup>4</sup> are carbon.

Another embodiment of a preferred integrin antagonist  
 30 template of sub-formula (T<sub>1</sub>) is represented by the 1,4-  
 benzodiazepine 2,5-dione of sub-formula (T<sub>2</sub>);



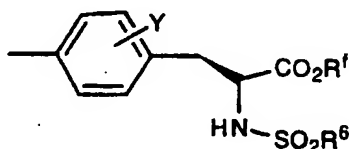
The preparation and the use of this sub-structure in preparing integrin antagonists of this sub-formula is detailed in Bondinell, et al., WO 93/00095 published January 7, 1993 and Blackburn, et al., WO 93/08174, published April 29, 1993.

Template T<sub>3</sub>, of sub-formulae:



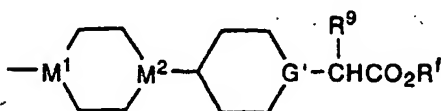
is disclosed in Alig, et al., EP 0 381 033, published August 8, 1990, wherein R<sup>21</sup> or R<sup>22</sup> provide for the acid terminus.

Template T<sub>4</sub>, of sub-formula:



is disclosed in Egbertson, et al., EP 0 478 328, published April 1, 1992.

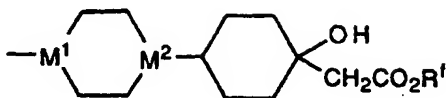
Template T<sub>5</sub>, of sub-formula:



is disclosed in Eldred, et al., EP 0542 363, published May 19, 1993.

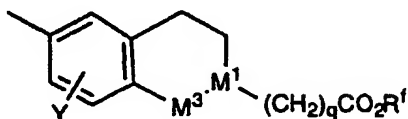
Template T<sub>6</sub>, of sub-formula:

5



is disclosed in Porter, et al., EP 0537 980, published April 21, 1993.

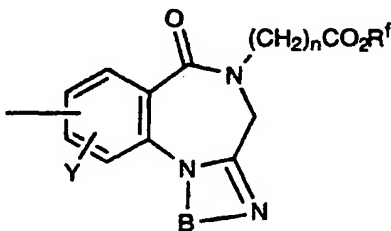
10 Template T<sub>7</sub>, of sub-formula:



is disclosed in Klinnick, et al., EP 0 635,492, published January 25, 1995.

15

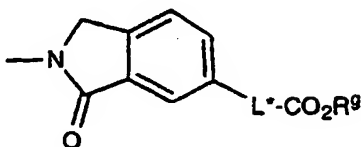
Template T<sub>8</sub>, of sub-formula:



is disclosed in Blackburn, et al., WO 95/04057, published February 9, 1995.

20

Template T<sub>9</sub>, of sub-formula:



25 is disclosed in Hartman, et al., EP 0 540 331, published May 5, 1993.

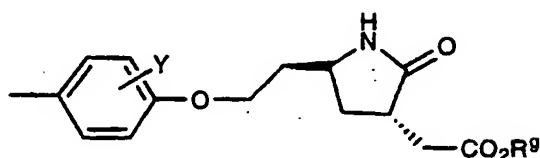


Template T<sub>10</sub>, of sub-formula:



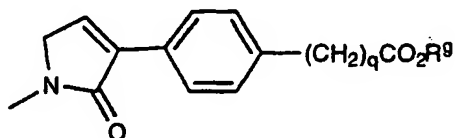
is disclosed in Sugihara, et al., EP 0 529, 858, published  
5 March 3, 1993.

Template T<sub>11</sub>, of sub-formula:



10 is disclosed in Himmelsbach, et al., EP 0 483 667, published  
May 6, 1992.

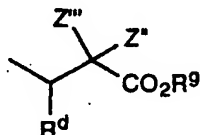
Template T<sub>12</sub>, of sub-formula:



15 is disclosed in Linz, et al, EP 0 567 968, published  
November 3, 1993.

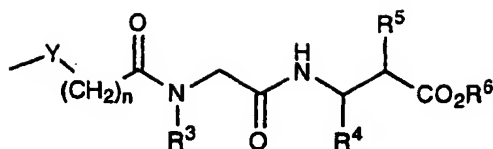
Template T<sub>13</sub>, of sub-formula:

20



is disclosed in Bovy, et al., EP 0 539 343, published April  
28, 1993.

25 Template T<sub>14</sub>, of sub-formula:



is disclosed in Hartman, et al., WO97/26250, published July 24, 1997.

5           The above description of integrin antagonist templates  
for use in the present invention were taken from pending  
published patent applications. Reference should be made to  
such patent applications for their full disclosures,  
including the methods of preparing said templates and  
10 specific compounds using said templates, the entire  
disclosure of such patent applications being incorporated  
herein by reference.

In the present invention it has been discovered that the compounds of Formula (IA) above are useful as inhibitors of cell-matrix and cell-cell adhesion processes. The present invention includes novel compounds of Formula (IA) and methods for using such compounds for the prevention or treatment of diseases resulting from abnormal cell adhesion to the extracellular matrix which comprises administering to a host in need of such treatment a therapeutically effective amount of such compound of Formula (IA).

In the present invention it has also been discovered that the compounds of Formula (IA) above are useful as inhibitors of the  $\alpha_v\beta_3$  integrin and/or the glycoprotein IIb/IIIa (GPIIb/IIIa) integrin. The compounds of the present invention inhibit the binding of vitronectin and other RGD containing ligands to  $\alpha_v\beta_3$  and/or to GPIIb/IIIa and inhibit cell adhesion.

30       The present invention also provides pharmaceutical compositions comprising a compound of Formula (IA) and a pharmaceutically acceptable carrier.

The compounds of Formula (IA) of the present invention are useful for the treatment (including prevention) of angiogenic disorders. The term "angiogenic

disorders" as used herein includes conditions involving abnormal neovascularization, such as tumor metastasis and ocular neovascularization, including, for example, diabetic retinopathy, neovascular glaucoma, age-related macular  
5 degeneration, and retinal vein occlusion, comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of Formula (IA) described above.

The compounds of Formula (IA) or the present  
10 invention may be useful for the treatment (including prevention) of thromboembolic disorders. The term "thromboembolic disorders" as used herein includes conditions involving platelet activation and aggregation, such as arterial or venous cardiovascular or cerebrovascular  
15 thromboembolic disorders, including, for example, thrombosis, unstable angina, first or recurrent myocardial infarction, ischemic sudden death, transient ischemic attack, stroke, atherosclerosis, venous thrombosis, deep vein thrombosis, thrombophlebitis, arterial embolism,  
20 coronary and cerebral arterial thrombosis, myocardial infarction, cerebral embolism, kidney embolisms, pulmonary embolisms, or such disorders associated with diabetes, comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound  
25 of Formula (IA) described above.

The compounds of Formula (IA) of the present invention may be useful for the treatment or prevention of other diseases which involve cell adhesion processes, including, but not limited to, inflammation, bone degradation,  
30 thromboembolic disorders, restenosis, rheumatoid arthritis, asthma, allergies, adult respiratory distress syndrome, graft versus host disease, organ transplantation rejection, septic shock, psoriasis, eczema, contact dermatitis, osteoporosis, osteoarthritis, atherosclerosis, inflammatory  
35 bowel disease and other autoimmune diseases. The compounds of Formula (IA) of the present invention may also be useful for wound healing.

Compounds of the invention may be administered to patients where prevention of thrombosis by inhibiting binding of fibrinogen to the platelet membrane glycoprotein complex IIb/IIIa receptor is desired. They are useful in surgery on peripheral arteries, (arterial grafts, carotid endarterectomy) and in cardiovascular surgery where manipulation of arteries and organs, and/or the interaction of platelets with artificial surfaces, leads to platelet aggregation and consumption, and where the aggregated platelets may form thrombi and thromboemboli. The compounds of the present invention may be administered to these surgical patients to prevent the formation of thrombi and thromboemboli.

Extracorporeal circulation is routinely used during cardiovascular surgery in order to oxygenate blood. Platelets adhere to surfaces of the extracorporeal circuit. Adhesion is dependent on the interaction between GPIIb/IIIa on the platelet membranes and fibrinogen adsorbed to the surface of the extracorporeal circuit. Platelets released from artificial surfaces show impaired homeostatic function. The compounds of the invention may be administered to prevent such ex vivo adhesion.

Other applications for these compounds include prevention of platelet thrombosis, thromboembolism, and reocclusion during and after thrombolytic therapy and prevention of platelet thrombosis, thromboembolism and reocclusion after angioplasty of coronary and other arteries and after coronary artery bypass procedures. The compounds of the present invention may also be used to prevent myocardial infarction.

The compounds of the present invention may be used for other ex vivo applications to prevent cellular adhesion in biological samples.

The compounds of the present invention can also be administered in combination with one or more additional therapeutic agents selected from: anti-coagulant or coagulation inhibitory agents, such as heparin or warfarin; anti-platelet or platelet inhibitory agents, such as

aspirin, piroxicam, or ticlopidine; thrombin inhibitors such as boro-peptides, hirudin or argatroban; or thrombolytic or fibrinolytic agents, such as plasminogen activators, anistreplase, urokinase, or streptokinase.

5           The compounds of Formula (IA) of the present invention can be administered in combination with one or more of the foregoing additional therapeutic agents, thereby to reduce the doses of each drug required to achieve the desired therapeutic effect. Thus, the combination treatment  
10 of the present invention permits the use of lower doses of each component, with reduced adverse, toxic effects of each component. A lower dosage minimizes the potential of side effects of the compounds, thereby providing an increased margin of safety relative to the margin of safety for each  
15 component when used as a single agent. Such combination therapies may be employed to achieve synergistic or additive therapeutic effects for the treatment of thromboembolic disorders.

By "therapeutically effective amount" it is meant an  
20 amount of a compound of Formula (IA) that when administered alone or in combination with an additional therapeutic agent to a cell or mammal is effective to prevent or ameliorate the thromboembolic disease condition or the progression of the disease.

25           By "administered in combination" it is meant that the compound of Formula (IA) and one or more additional therapeutic agents are administered concurrently to the mammal being treated. When administered in combination each component may be administered at the same time or  
30 sequentially in any order at different points in time. Thus, each component may be administered separately but sufficiently closely in time so as to provide the desired therapeutic effect.

The term anti-coagulant agents (or coagulation  
35 inhibitory agents), as used herein, denotes agents that inhibit blood coagulation. Such agents include warfarin (available as COUMADIN®) and heparin.

The term anti-platelet agents (or platelet inhibitory agents), as used herein, denotes agents that inhibit platelet function such as by inhibiting the aggregation, adhesion or granular secretion of platelets. Such agents include the various known non-steroidal anti-inflammatory drugs such as aspirin, ibuprofen, naproxen, sulindac, indomethacin, mefenamate, droxicam, diclofenac, sulfinpyrazone, and piroxicam, including pharmaceutically acceptable salts or prodrugs thereof. Other suitable anti-platelet agents include ticlopidine, including pharmaceutically acceptable salts or prodrugs thereof. Ticlopidine is also a preferred compound since it is known to be gentle on the gastro-intestinal tract in use. Still other suitable platelet inhibitory agents include thromboxane-A<sub>2</sub>-receptor antagonists and thromboxane-A<sub>2</sub>-synthetase inhibitors, as well as pharmaceutically acceptable salts or prodrugs thereof.

The phrase thrombin inhibitors (or anti-thrombin agents), as used herein, denotes inhibitors of the serine protease thrombin. By inhibiting thrombin, various thrombin-mediated processes, such as thrombin-mediated platelet activation (that is, for example, the aggregation of platelets, and/or the granular secretion of plasminogen activator inhibitor-1 and/or serotonin) and/or fibrin formation are disrupted. Such inhibitors include boroarginine derivatives and boro peptides, hirudin and argatroban, including pharmaceutically acceptable salts and prodrugs thereof. Boroarginine derivatives and boro peptides include N-acetyl and peptide derivatives of boronic acid, such as C-terminal  $\alpha$ -aminoboronic acid derivatives of lysine, ornithine, arginine, homoarginine and corresponding isothiuronium analogs thereof. The term hirudin, as used herein, includes suitable derivatives or analogs of hirudin, referred to herein as hirulogs, such as disulfatohirudin. Boro peptide thrombin inhibitors include compounds described in Kettner et al., U.S. Patent No. 5,187,157 and European Patent Application Publication Number 293 881 A2, the disclosures of which are hereby incorporated herein by

reference. Other suitable boroarginine derivatives and boro-peptide thrombin inhibitors include those disclosed in PCT Application Publication Number 92/07869 and European Patent Application Publication Number 471 651 A2, the  
5 disclosures of which are hereby incorporated herein by reference, in their entirety.

The phrase thrombolytics (or fibrinolytic) agents (or thrombolytics or fibrinolytics), as used herein, denotes agents that lyse blood clots (thrombi). Such agents include  
10 tissue plasminogen activator, anistreplase, urokinase or streptokinase, including pharmaceutically acceptable salts or prodrugs thereof. Tissue plasminogen activator (tPA) is commercially available from Genentech Inc., South San Francisco, California. The term anistreplase, as used  
15 herein, refers to anisoylated plasminogen streptokinase activator complex, as described, for example, in European Patent Application No. 028,489, the disclosures of which are hereby incorporated herein by reference herein, in their  
20 entirety. The term urokinase, as used herein, is intended to denote both dual and single chain urokinase, the latter also being referred to herein as prourokinase.

Administration of the compounds of Formula (IA) of the invention in combination with such additional therapeutic agent, may afford an efficacy advantage over the compounds  
25 and agents alone, and may do so while permitting the use of lower doses of each. A lower dosage minimizes the potential of side effects, thereby providing an increased margin of safety.

The compounds of the present invention are also useful  
30 as standard or reference compounds, for example as a quality standard or control, in tests or assays involving the binding of vitronectin or fibrinogen to  $\alpha_v\beta_3$ . Such compounds may be provided in a commercial kit, for example, for use in pharmaceutical research involving  $\alpha_v\beta_3$ . The compounds of the  
35 present invention may also be used in diagnostic assays involving  $\alpha_v\beta_3$ .

The compounds herein described may have asymmetric centers. Unless otherwise indicated, all chiral, diastereomeric and racemic forms are included in the present invention. Many geometric isomers of olefins, C=N double bonds, and the like can also be present in the compounds described herein, and all such stable isomers are contemplated in the present invention. It will be appreciated that compounds of the present invention that contain asymmetrically substituted carbon atoms may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as by resolution of racemic forms or by synthesis, from optically active starting materials. All chiral, diastereomeric, racemic forms and all geometric isomeric forms of a structure are intended, unless the specific stereochemistry or isomer form is specifically indicated.

When any variable (for example but not limited to,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{12}$ ,  $R^{17}$ , h, i, n, m, r, etc.) occurs more than one time in any constituent or in any formula, its definition on each occurrence is independent of its definition at every other occurrence. Thus, for example, if a group is shown to be substituted with 0-2  $R^4$ , then said group may optionally be substituted with up to two  $R^4$  and  $R^4$  at each occurrence is selected independently from the defined list of possible  $R^4$ . Also, by way of example, for the group  $-N(R^2)_2$ , each of the two  $R^2$  substituents on N is independently selected from the defined list of possible  $R^2$ . Similarly, by way of example, for the group  $-C(R^{12})_2-$ , each of the two  $R^{12}$  substituents on C is independently selected from the defined list of possible  $R^{12}$ .

When a bond to a substituent is shown to cross the bond connecting two atoms in a ring, then such substituent may be bonded to any atom on the ring. When a bond joining a substituent to another group is not specifically shown or the atom in such other group to which the bond joins is not specifically shown, then such substituent may form a bond with any atom on such other group.



When a substituent is listed without indicating the atom via which such substituent is bonded to the rest of the compound of Formula (IA), then such substituent may be bonded via any atom in such substituent. For example, when the substituent is piperazinyl, piperidinyl, or tetrazolyl, unless specified otherwise, said piperazinyl, piperidinyl, tetrazolyl group may be bonded to the rest of the compound of Formula (IA) via any atom in such piperazinyl, piperidinyl, tetrazolyl group.

Combinations of substituents and/or variables are permissible only if such combinations result in stable compounds. By stable compound or stable structure it is meant herein a compound that is sufficiently robust to survive isolation to a useful degree of purity from a reaction mixture, and formulation into an efficacious therapeutic agent.

The term "substituted", as used herein, means that any one or more hydrogen on the designated atom is replaced with a selection from the indicated group, provided that the designated atom's normal valency is not exceeded, and that the substitution results in a stable compound. When a substituent is keto (i.e., =O), then 2 hydrogens on the atom are replaced.

As used herein, "alkyl" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms. For example, "C<sub>0</sub>-C<sub>10</sub> alkyl" denotes alkyl having 0 to 10 carbon atoms; thus, C<sub>0</sub> denotes a direct bond between the groups linked by the C<sub>0</sub> alkyl group. Similarly, "C<sub>1</sub>-C<sub>6</sub> alkyl" denotes methyl, ethyl, propyl, butyl, pentyl, hexyl; wherein, for example, butyl is intended to include n-butyl, i-butyl, s-butyl, and t-butyl.

"Haloalkyl" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms, substituted with 1 or more halogen (for example -C<sub>v</sub>F<sub>w</sub> where v = 1 to 3 and w = 1 to (2v+1)). "Alkoxy" represents an alkyl group of indicated number of carbon atoms attached through an oxygen bridge.

(for example, "C<sub>0</sub>-C<sub>10</sub> alkoxy" denotes alkoxy having 0 to 10 carbon atoms; thus, C<sub>0</sub> denotes an oxygen atom between the groups linked by the C<sub>0</sub> alkoxy group). "Cycloalkyl" is intended to include saturated ring groups, including mono-,  
5 bi- or poly-cyclic ring systems, such as cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclooctyl, and adamantyl.

"Alkenyl" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more  
10 unsaturated carbon-carbon bonds which may occur in any stable point along the chain, such as ethenyl, propenyl, butenyl and the like. "Alkynyl" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more triple carbon-carbon bonds  
15 which may occur in any stable point along the chain, such as ethynyl, propynyl, butynyl and the like.

The terms "alkylene", "alkenylene", "phenylene", and the like, refer to alkyl, alkenyl, and phenyl groups, respectively, which are connected by two bonds to the rest  
20 of the structure of Formula (IA). Such "alkylene", "alkenylene", "phenylene", and the like, may alternatively and equivalently be denoted herein as "-(alkyl)-", "-(alkylene)-" and "-(phenyl)-", and the like.

"Halo" or "halogen" as used herein refers to fluoro,  
25 chloro, bromo and iodo; and "counterion" is used to represent a small, negatively charged species such as chloride, bromide, hydroxide, acetate, sulfate and the like.

As used herein, "aryl" or "aromatic residue" is intended to mean phenyl or naphthyl; the term "arylalkyl"  
30 represents an aryl group attached through an alkyl bridge. For example, "aryl C<sub>1</sub>-C<sub>4</sub> alkyl" represents phenylmethyl, phenylethyl, phenylpropyl, phenylbutyl, and the like.

As used herein, "carbocycle" or "carbocyclic ring" is intended to mean any stable 3- to 7- membered monocyclic or  
35 bicyclic or 7- to 14-membered bicyclic or tricyclic or an up to 26-membered polycyclic carbon ring, any of which may be saturated, partially unsaturated, or aromatic. Examples of such carbocycles include, but are not limited to,

cyclopropyl, cyclopentyl, cyclohexyl, phenyl, biphenyl, naphthyl, indanyl, adamantyl, or tetrahydronaphthyl (tetralin).

As used herein, the term "heterocycle" or "heterocyclic ring" is intended to mean a stable 5- to 7- membered monocyclic or bicyclic or 7- to 10-membered bicyclic heterocyclic ring which may be saturated, partially unsaturated, or aromatic, and which consists of carbon atoms and from 1 to 4 heteroatoms independently selected from the group consisting of N, O and S and wherein the nitrogen and sulfur heteroatoms may optionally be oxidized, and the nitrogen may optionally be quaternized, and including any bicyclic group in which any of the above-defined heterocyclic rings is fused to a benzene ring. The heterocyclic ring may be attached to its pendant group at any heteroatom or carbon atom which results in a stable structure. The heterocyclic rings described herein may be substituted on carbon or on a nitrogen atom if the resulting compound is stable. Examples of such heterocycles include, but are not limited to, pyridyl (pyridinyl), pyrimidinyl, furanyl (furyl), thiazolyl, thienyl, pyrrolyl, pyrazolyl, imidazolyl, tetrazolyl, benzofuranyl, benzothiophenyl, indolyl, indolenyl, isoxazolinyl, isoxazolyl, quinolinyl, isoquinolinyl, benzimidazolyl, piperidinyl, 4-piperidonyl, pyrrolidinyl, 2-pyrrolidonyl, pyrrolinyl, tetrahydrofuranyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, decahydroquinolinyl or octahydroisoquinolinyl, azocinyl, triazinyl, 6H-1,2,5-thiadiazinyl, 2H,6H-1,5,2-dithiazinyl, thianthrenyl, pyranyl, isobenzofuranyl, chromenyl, xanthenyl, phenoxathiinyl, 2H-pyrrolyl, pyrrolyl, imidazolyl, pyrazolyl, isothiazolyl, isoxazolinyl, isoxazolyl, oxazolyl, pyridinyl, pyrazinyl, pyrimidinyl, pyridazinyl, indolizinyl, isoindolyl, 3H-indolyl, indolyl, 1H-indazolyl, purinyl, 4H-quinolizinyl, isoquinolinyl, quinolinyl, phthalazinyl, naphthyridinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, 4aH-carbazole, carbazole,  $\beta$ -carbolinyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenazinyl, phenarsazinyl,

phenothiazinyl, furazanyl, phenoxazinyl, isochromanyl, chromanyl, pyrrolidinyl, pyrrolinyl, imidazolidinyl, imidazoliny, pyrazolidinyl, pyrazolinyl, piperidinyl, piperazinyl, indolinyl, isoindolinyl, quinuclidinyl, morpholinyl or oxazolidinyl. Also included are fused ring and spiro compounds containing, for example, the above heterocycles.

As used herein, the term "heteroaryl" refers to aromatic heterocyclic groups. Such heteroaryl groups are preferably 5-6 membered monocyclic groups or 8-10 membered fused bicyclic groups. Examples of such heteroaryl groups include, but are not limited to pyridyl (pyridinyl), pyrimidinyl, furanyl (furyl), thiazolyl, thienyl, pyrrolyl, pyrazolyl, imidazolyl, indolyl, isoxazolyl, oxazolyl, pyrazinyl, pyrimidinyl, pyridazinyl, benzofuranyl, benzothienyl, benzimidazolyl, quinolinyl, or isoquinolinyl.

The term "integrin" as used herein refers to any of the many cell surface receptor proteins, also referred to as adhesion protein receptors, which have been identified which bind to extracellular matrix ligands or other cell adhesion protein ligands thereby mediating cell-cell and cell-matrix adhesion processes. The integrins are encoded by genes belonging to a gene superfamily and are typically composed of heterodimeric transmembrane glycoproteins containing  $\alpha$ - and  $\beta$ -subunits. Integrin subfamilies contain a common  $\beta$ -subunit combined with different  $\alpha$ -subunits to form adhesion protein receptors with different specificities.

The integrin glycoprotein IIb/IIIa (referred to herein as GPIIb/IIIa or IIb/IIIa or the fibrinogen receptor) is the membrane protein mediating platelet aggregation. GPIIb/IIIa in activated platelets is known to bind four soluble RGD-containing adhesive proteins, namely fibrinogen, von Willebrand factor, fibronectin, and vitronectin. In addition to GPIIb/IIIa, a number of other integrin cell surface receptors have been identified, for example,  $\alpha\beta 3$  and  $\alpha 5\beta 1$ .

The term "integrin antagonists" as referred to herein (also referred to herein as integrin inhibitors) includes compounds (including peptidomimetic compounds and other small molecule compounds) which act as inhibitors of the binding of the integrin protein to endogenous protein ligands of such integrin. Preferred integrin inhibitors used in the present invention are RGD-peptidomimetic compounds. As used herein, the term "RGD-peptidomimetic compounds" refers to chemical compounds which bind to the RGD-binding region of the integrin and which block RGD-mediated binding of one or more adhesive proteins to such integrin. Preferred in the present invention are antagonists of the  $\alpha v \beta 3$  and GPIIb/IIIa integrin.

As used herein, "prodrugs" refer to any covalently bonded carriers which release the active parent drug according to Formula (IA) *in vivo* when such prodrug is administered to a mammalian subject. Prodrugs of the compounds of Formula (IA) are prepared by modifying functional groups present in the compounds in such a way that the modifications are cleaved, either in routine manipulation or *in vivo*, to the parent compounds. Prodrugs include compounds of Formula (IA) wherein hydroxyl, amino, sulfhydryl, or carboxyl groups are bonded to any group that, when administered to a mammalian subject, cleaves to form a free hydroxyl, amino, sulfhydryl, or carboxyl group respectively. Examples of prodrugs include, but are not limited to, acetate, formate and benzoate derivatives of alcohol and amine functional groups in the compounds of Formula (IA), and the like.

As used herein, "pharmaceutically acceptable salts" refer to derivatives of the disclosed compounds wherein the parent compound of Formula (IA) is modified by making acid or base salts of the compound of Formula (IA). Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines; alkali or organic salts of acidic residues such as carboxylic acids; and the like.

The pharmaceutically acceptable salts of the compounds of Formula (IA) include the conventional non-toxic salts or the quaternary ammonium salts of the compounds of Formula (IA) formed, for example, from non-toxic inorganic or organic acids. For example, such conventional non-toxic salts include those derived from inorganic acids such as hydrochloric, hydrobromic, sulfuric, sulfamic, phosphoric, nitric and the like; and the salts prepared from organic acids such as acetic, propionic, succinic, glycolic, stearic, lactic, malic, tartaric, citric, ascorbic, pantoic, maleic, hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic, sulfanilic, 2-acetoxybenzoic, fumaric, toluenesulfonic, methanesulfonic, ethane disulfonic, oxalic, isethionic, and the like.

The pharmaceutically acceptable salts of the present invention can be synthesized from the compounds of Formula (IA) which contain a basic or acidic moiety by conventional chemical methods. Generally, the salts are prepared by reacting the free base or acid with stoichiometric amounts or with an excess of the desired salt-forming inorganic or organic acid or base in a suitable solvent or various combinations of solvents.

The pharmaceutically acceptable salts of the acids of Formula (IA) with an appropriate amount of a base, such as an alkali or alkaline earth metal hydroxide e.g. sodium, potassium, lithium, calcium, or magnesium, or an organic base such as an amine, e.g., dibenzylethylenediamine, trimethylamine, piperidine, pyrrolidine, benzylamine and the like, or a quaternary ammonium hydroxide such as tetramethylammonium hydroxide and the like.

As discussed above, pharmaceutically acceptable salts of the compounds of the invention can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the appropriate base or acid, respectively, in water or in an organic solvent, or in a mixture of the two; generally, nonaqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in *Remington's*

Pharmaceutical Sciences, 17th ed., Mack Publishing Company, Easton, PA, 1985, p. 1418, the disclosure of which is hereby incorporated by reference.

- 5           The disclosures of all of the references cited herein are hereby incorporated herein by reference in their entirety.

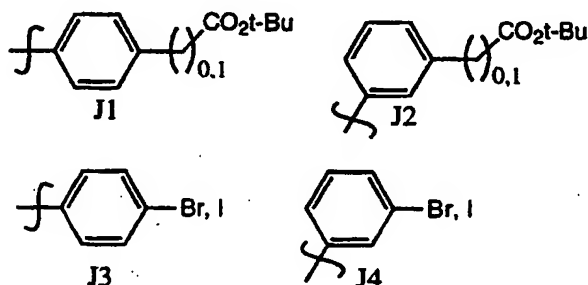
### Synthesis

- 10           The compounds of the present invention can be prepared in a number of ways well known to one skilled in the art of organic synthesis. The compounds of the present invention can be synthesized using the methods described below, together with synthetic methods known in the art of  
15 synthetic organic chemistry, or variations thereon as appreciated by those skilled in the art. The templates of Formula (IB) and (IC) can be synthesized by methods disclosed in U.S. Patent Application U.S.S.N. 08/647132 filed May 9, 1996 or published in WO 96/37492 on November  
20 28, 1996. The templates of Formula (ID) and (IE) can be synthesized by methods disclosed in U.S. Patent Application U.S.S.N. 08/816580 filed March 13, 1997 or published in WO 97/33887 on September 18, 1997. The template of Formula (IG) can be synthesized by methods disclosed in U.S. Patent  
25 Application U.S.S.N. 08/770538 filed December 20, 1996 or published in WO 97/23480 on July 3, 1997. Preferred methods include, but are not limited to, those described below. All references cited herein are hereby incorporated in their entirety herein by reference.

- 30           The synthesis of compounds of formula I with various heterocycles represented by G may be prepared by many methods. For reviews on the synthesis of pyrimidines see Brown, D.J., in Comprehensive Heterocyclic Chemistry Vol. 3, pp. 57-157, (Katritzky A.R., and Rees, C.W ed's) Pergamon  
35 Press Ltd., New York, 1984, and Brown, D.J., in The Pyrimidines Vol 16. with supplements I and II. in the series

Chemistry of Heterocyclic Compounds (Weissberger A., and Taylor, E.C. ed's) John Wiley and Sons, New York, 1970. For reviews on the synthesis of triazines see Quirke, J.M.E., in Comprehensive Heterocyclic Chemistry Vol. 3, pp. 457-531, (Katritzky A.R., and Rees, C.W ed's) Pergamon Press Ltd., New York, 1984.

Some of the methods which may be used to prepare the heterocyclic moieties represented by G in formula I are illustrated below in schemes Ia through Id and IIa through IIh. In schemes Ia through Id and IIa through IIh the substituent J represents a group appropriate for eventual elaboration to a compound of formula I. Typical examples of such groups are represented by formulas J1 through J4. The examples J1 through J4 are for illustration purposes and do not represent a limitation on the scope of the invention.



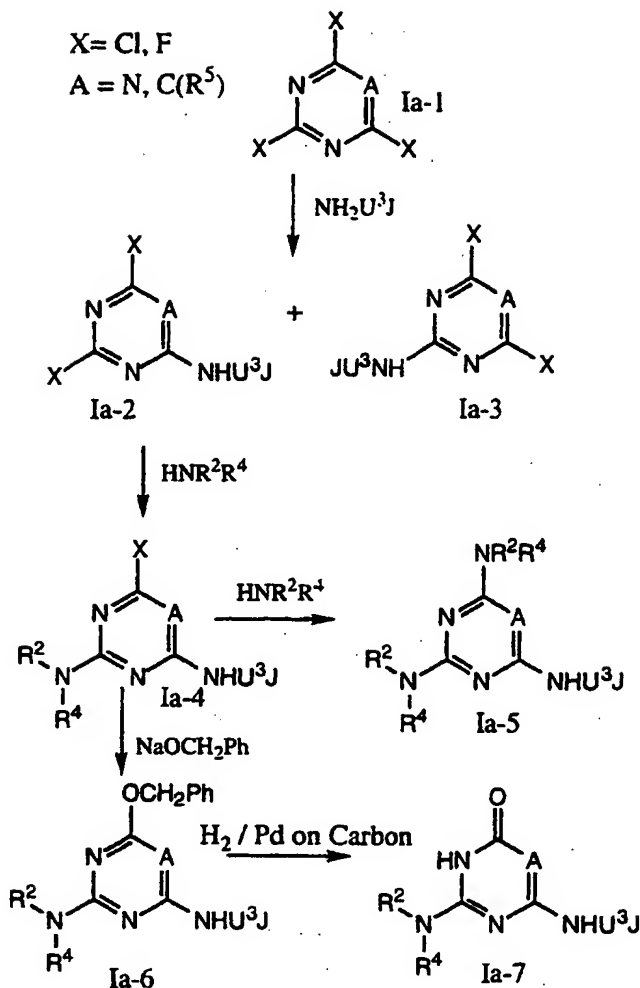
One general method of synthesis of the G portion of the compounds of formula I involves the displacement of an activated halogen atom substituent on an electron deficient heterocycle with nucleophiles including but not limited to amines, hydroxide, alkoxide salts, mercaptan salts, alkylthio salts, or Grignard reagents as outlined in schemes Ia - Id. The examples shown in schemes Ia-Id are for illustration purposes and do not constitute a limitation on the scope of the invention. The halogen containing heterocycles are obtained from commercial sources or can be readily prepared by one skilled in the art of organic synthesis from several means including direct halogenation or by conversion of the available oxo precursors. The oxo derivative may be converted to the halide by treatment with a phosphorous halide, for example phosphorous oxychloride,



at temperatures from room temperature to reflux, with or without addition of a co-solvent, and with or without the addition of a basic catalyst, for example N,N-dimethylaniline. Fluorine containing heterocycles may be  
5 produced by several methods including transhalogenation of the chloro derivatives by treatment with a fluoride salt such as sodium fluoride, potassium fluoride or silver fluoride at elevated temperatures.

The nucleophilic displacement of activated multiple  
10 halogen containing electron deficient heterocycles has been shown to be generally applicable to multistep substitution procedures. The level of substitution may be controlled by choice of the proper sequence of reactions and reaction conditions such as stoichiometry, temperature, pressure and  
15 solvent. The choice of the proper conditions would be known to one skilled in the art of organic synthesis, for pyrimidines this process is outlined in Brown, D.J., in The Pyrimidines Vol 16 supplements II, pp.184-188 in the series Chemistry of Heterocyclic Compounds (Weissberger A., and  
20 Taylor, E.C. ed's) John Wiley and Sons, New York, 1970. This iterative substitution process has also been illustrated for triazines starting from cyanuric chloride; for example, monosubstitution is depicted in Cambell, J.R., and Hatton, R.E., J. Org. Chem., 26, 2786, 1961, and for example,  
25 disubstitution is shown in Thurston, J.T., Dudley, J.R., Kaiser, D.W., Schaefer, F.C, et. al. J. Amer. Chem. Soc. 73, 2981, 1954, and for example, trisubstitution is shown in Controulis, J., Banks, C.K., J. Amer. Chem. Soc. 67, 1946, 1945. Other polyhalogenated heterocycles contained in this  
30 scope might be expected to behave in a similar manner.

Scheme Ia:



Scheme Ia represents a means of sequentially introducing nucleophiles into the heterocyclic core. The starting heterocycles cyanuric chloride, 2,4,6-trifluoropyrimidine, 2,4,6-trichloropyrimidine and the intermediate 2-amino-4,6-dichloropyrimidine are commercially available. In this case the amine containing U<sup>3</sup>J is treated with the trihaloheterocycle first, although the sequence of addition may be altered. The reaction may be carried out in an alcoholic solvent or N,N-dimethylformamide, from 0°C to 100°C. In the case where the heterocycle is a pyrimidine two isomers will generally be produced (Ia-2 and Ia-3) and may be separated by several methods including chromatography, crystallization or distillation. Scheme Ia depicts Ia-2 as

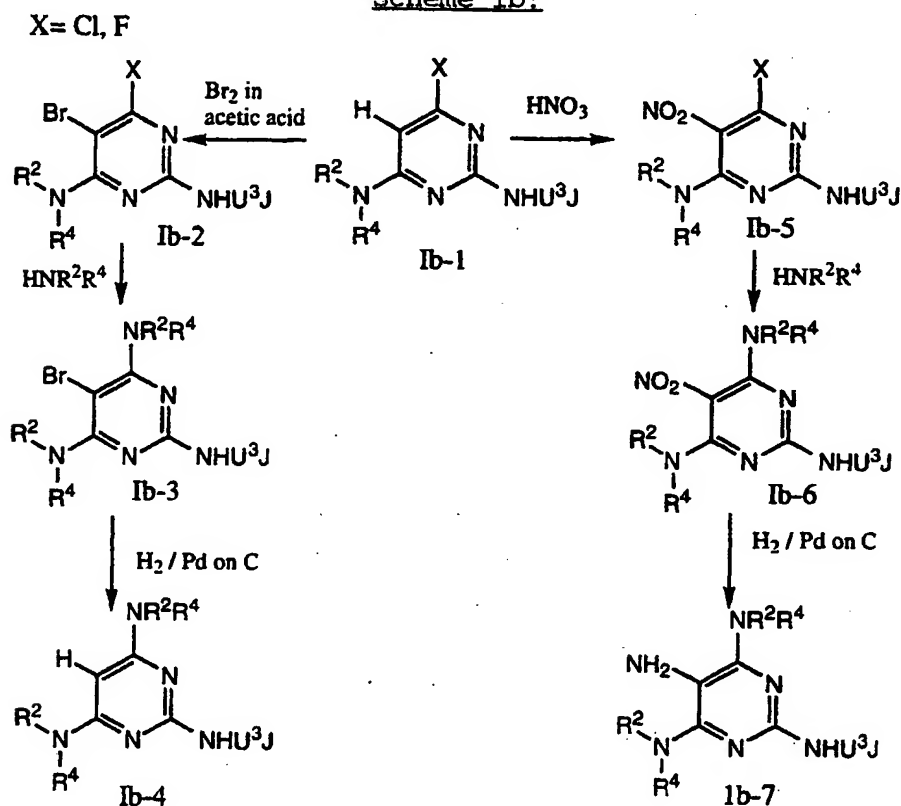
being carried through the remainder of the reaction sequence although isomer Ia-3 may be carried through the same reaction sequence. Isomer Ia-2 is then allowed to react with a second amine, by heating the components in an alcoholic solvent or N,N-dimethylformamide, from 25°C to 140°C to provide Ia-4. The diaminoheterocycle may be treated with a third amine component by heating in a sealed tube at a temperature of 80°C to 210°C to provide Ia-5. Alternatively, Ia-4 may be treated with an alkoxide such as sodium benzylalkoxide possible with the addition of an inert solvent such as mesitylene at a temperature from 100°C to 160°C to provide Ia-6, or alternatively Ia-4 might be treated with a sodium alkylthio salt (not shown) by heating in an alcoholic solvent. The benzyl group in compound Ia-6 may be removed by hydrogenation in the presence of a suitable catalyst such as palladium on carbon at a pressure from atmospheric to 55psi to provide Ia-7. The hydroxy substituted heterocycles may exist in either the hydroxy tautomer or the keto tautomer or may exist as a mixture of both tautomers.

In some pyrimidine cases produced in scheme Ia, the final nucleophilic addition may be difficult to achieve, the rate of the reaction can be accelerated by first adding an electron withdrawing substituent to the ring such as a nitro or bromo substituent as illustrated in scheme Ib.

Nitration or halogenation of the 5-position of pyrimidine Ib-1 which contain one or two amino substituents or hydroxy or alkoxy substituents occurs readily as described in Brown, D.J., in The Pyrimidines Vol 16 supplements II, pp.135-39 and supplement I pp. 119-122, the series Chemistry of Heterocyclic Compounds (Weissberger A., and Taylor, E.C. ed's) John Wiley and Sons, New York, 1970. Nitration occurs in a temperature range from 0°C to 50°C with a variety of nitrating reagents such as fuming nitric acid in acetic acid or sodium nitrate in sulfuric acid to provide Ib-5. Alternatively, the pyrimidines may be halogenated for example with bromine in acetic acid to provide Ib-2. After addition of the electron withdrawing

substituent treatment with an amine can proceed at an acceptable rate at elevated temperature to produce either Ib-3 or Ib-6. In the case of Ib-2 nucleophilic attack usually only occurs at the 6-position and does not displace the 5-bromo substituent. The bromine atom in Ib-3 may be removed by catalytic hydrogenation for example by using palladium or platinum on carbon as the catalyst. In the case of a 5-nitro substituent Ib-6, reduction with palladium on carbon, or use of a metal such as zinc, provides the 5-amino substituent Ib-7.

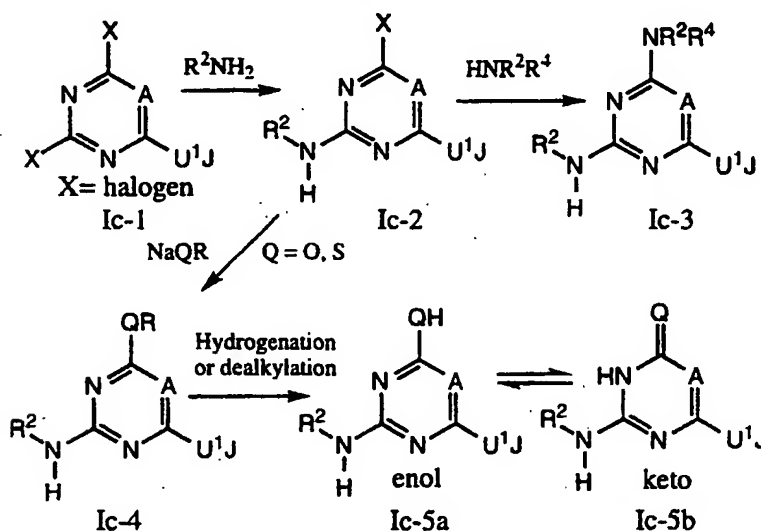
Scheme Ib:



In scheme Ic the dihaloheterocycle Ic-1 is reacted with a nucleophilic amine in an alcoholic solvent or a solvent such as N,N-dimethylacetamide. Isolation of the product Ic-2 may also require the separation of isomers. Each isomer may be carried through the reaction sequence. Reaction of Ic-2 with a second amine substituent usually requires elevated temperatures and in some cases high

pressure to provide Ic-3. Alternatively, the monohalo derivative Ic-2 may be treated with an alkoxide or alkylthio salt to provide Ic-4. Removal of the alkyl group may be accomplished by treatment with reagents such as hydrobromic acid, or  $\text{AlCl}_3$  or  $\text{BBr}_3$ . If a benzylalkoxide is used the benzyl group may be removed by hydrogenolysis using a catalyst such as  $\text{Pd/C}$ , or  $\text{Pt/C}$ , in the presence or absence of an added base such as  $\text{NaOH}$ , or a tertiary amine base. The oxygen or sulfur substituent may exist in either the enol (Ic-5a) or keto (Ic-5b) form or a mixture of both.

Scheme Ic:

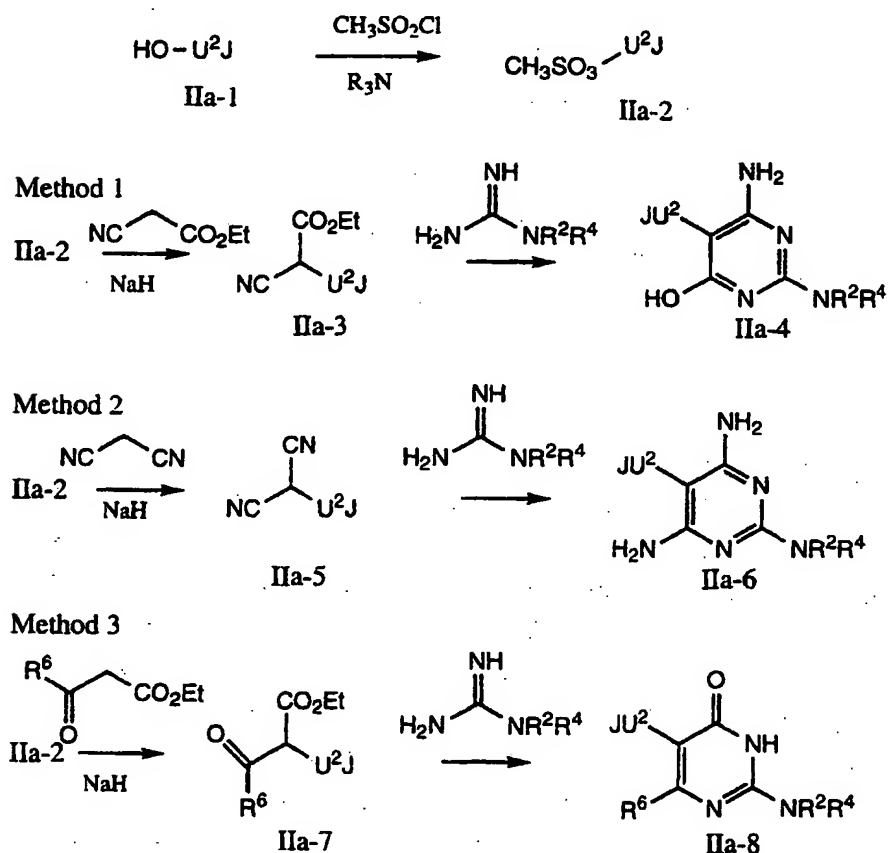


A second general method of synthesis of the G portion of compounds of formula I, involves ring forming reactions. The many ring forming reactions for pyrimidines, triazines, and other heterocycles which can be used to prepare the compounds in this invention, are outlined in the reviews cited above. The examples shown in schemes IIa through IIg are for illustration purposes and do not constitute a limitation on the scope of the invention.

Scheme IIa shows a general condensation route to pyrimidines based on the method of Taylor, E.C., Harrington, P.M., and Shih, C., in *Heterocycles*, 28, 1169, 1989. Taylor starts with an alcohol which can be obtained by a variety of methods well known to one skilled in the art of organic

chemistry some examples are shown in schemes IIIa-IIIc, other precursors such as an alkylhalide is also permissible, which may be readily prepared from the alcohols. The group  $U^2J$  is used in this general method, but for this synthetic scheme,  $U^2J$  is meant to include only those cases in which the terminal methylene group is an alcohol. For example  $U^2J$  is a compound like IIIa-6. In this case the alcohol is reacted with a sulfonyl chloride such as mesyl chloride or tosyl chloride in the presence of a tertiary amine, such as triethylamine, or a base such pyridine, in a suitable solvent, such as methylene chloride or N,N-dimethylformamide to prepare the activated sulfonate IIa-2.

Scheme IIa:



Activated methylene compounds are either, commercially available, or are readily prepared by methods known to one

skilled in the art of organic synthesis, for example preparation by acylation of an ester enolate. Alkylation of active methylene compounds are well known in organic chemistry for example, see "The alkylation of active methylene compounds" in Modern Synthetic Reactions 2nd ed. House, H. O., Chapter 9, Benjamin/Cummings Publishing Co, Menlo Park, Ca., 1972. Briefly alkylation may be accomplished by treatment of an activated methylene compound with a suitable base such as sodium hydride, in a suitable solvent such as anhydrous tetrahydrofuran, or anhydrous dioxane at a temperature ranging from -5°C to solvent reflux will form an anion. This is accompanied by the evolution of hydrogen gas (caution). A solution of the anion is generally cooled to -10°C - 0°C and the alkylsulfonate ester is added. The reaction mixture is allowed to stir at a temperature ranging from 0°C to solvent reflux, until the reaction is deemed to have progressed to completion or as far as practical.

In scheme IIa method I, the intermediate cyanoacetate IIa-3 is heated with a guanidine to provide pyrimidine IIa-4. In scheme IIa method 2 the intermediate malononitrile IIa-5 is heated with a guanidine provides pyrimidine IIa-6, and in scheme IIa method 3, the intermediate ketoester IIa-7 is heated with a guanidine to provide pyrimidine IIa-8.

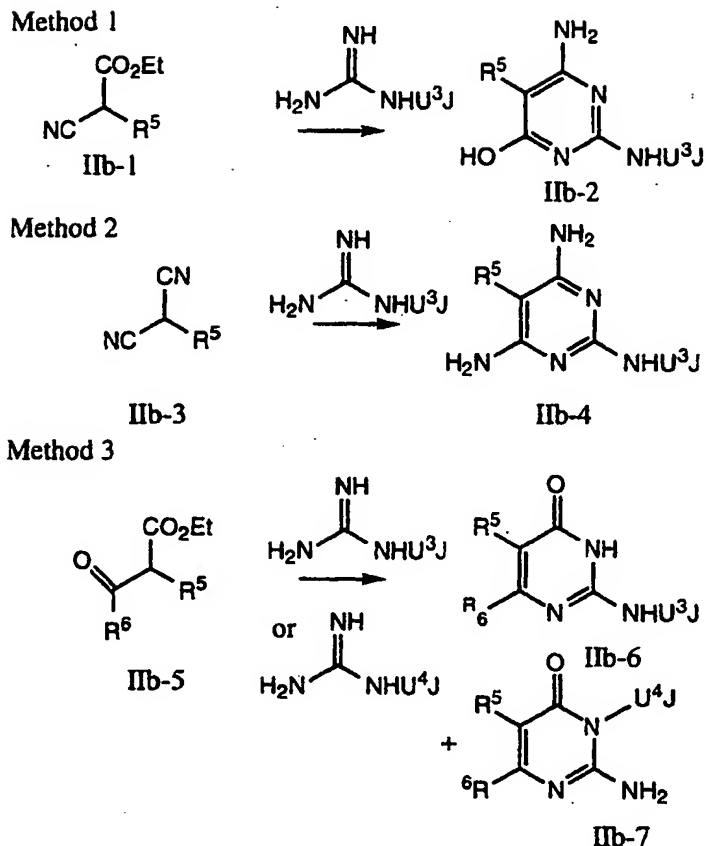
Scheme IIb methods 1-3 utilize guanidines which are either commercially available or are readily prepared by methods known to one skilled in the art of organic synthesis, for example as illustrated in scheme IIId. It has been suggested in the method of Taylor that guanidine salts should first be treated with sodium alkoxide/alcohol and filtered to prepare a "salt free" solution of the guanidine base. At this point the solvent may be removed and the guanidine redissolved in a appropriate solvent, the choice of which is determined by by considerations such as desired reaction temperature and solubility of the reactants, and includes alcohols, N,N-dimethylformamide, and N,N-dimethylacetamide and would be known to one skilled in the art of organic synthesis. Reaction of the guanidine base

with the active methylene compounds in methods 1-3, at a temperature from room temperature to solvent reflux provides the desired pyrimidines.

5 In cases where there is a single alkyl group on the  
guanidine base it can be envisioned that there will be two  
possible condensation products, one the desired pyrimidine  
and one which is the ring nitrogen substituted  
iminopyrimidine. These products may be separated to provide  
the desired product. In some cases the ring nitrogen  
10 substituted iminopyrimidine may undergo the Dimroth  
rearrangement to provide the desired aminosubstituted  
pyrimidine (for a discussion of the Dimroth rearrangement  
see Brown, D.J., in The Pyrimidines Vol 16 supplements I,  
pp.287-294 in the series Chemistry of Heterocyclic Compounds  
15 (Weissberger A., and Taylor, E.C. ed's) John Wiley and Sons,  
New York, 1970. Alternatively, iminopyrimidines may be  
hydrolyzed to the pyrimidone (or hydroxypyrimidine tautomer)  
by treatment with aqueous acid.

Scheme IIb illustrates the use of activated methylene  
20 compounds to generate the isomeric pyrimidines which are  
also within the scope of this invention. In scheme IIb  
method 1 the guanidine is condensed with a  $\beta$ -ester nitrile  
in a ethanolic solvent or N,N-dimethylformamide, at 40°C to  
120°C to give the pyrimidine. In scheme IIb method 2 a  
25 malononitrile derivative is condensed with a guanidine  
derivative to produce the desired pyrimidine. Scheme IIb  
method 3 illustrates the condensation of a  $\beta$ -ketoester with  
a guanidine to produce the desired pyrimidine.



Scheme IIb:

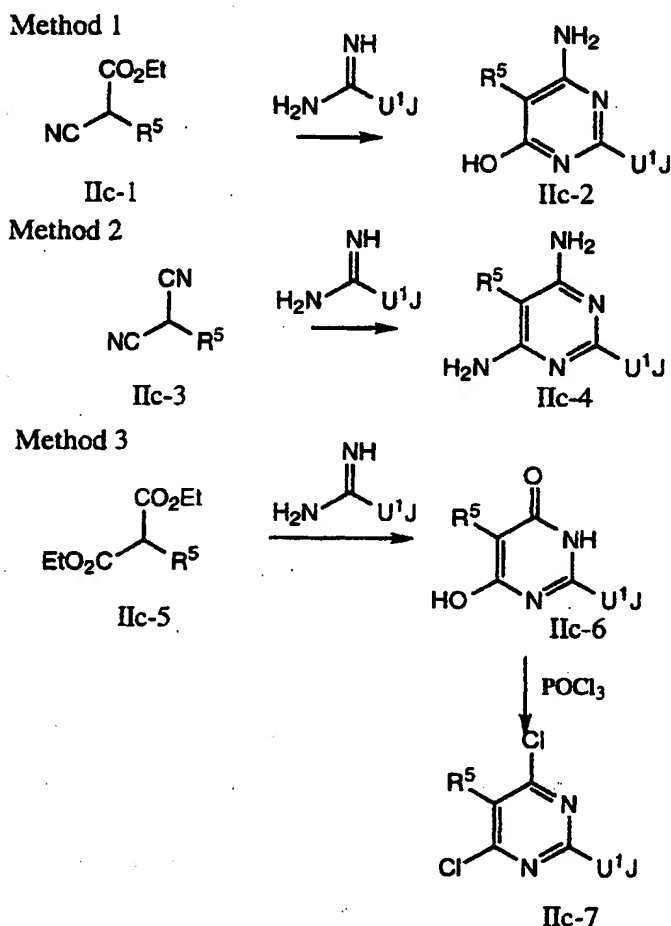
- 5        Amidines are either commercially available or readily prepared by one skilled in the art of organic chemistry from readily available nitriles by several methods including a method commonly referred to as the Pinner synthesis of
- 10        amidines which involves treatment of the nitrile with methanol and anhydrous HCl either with or without an added solvent such as methylene chloride or chloroform followed by the addition of an amine. Amidines readily condense with a variety of activated methylene groups to form pyrimidines. Scheme IIc illustrates the condensation of an amidine with
- 15        and active methylene group. In scheme IIc method 1, a malonic ester is heated in an ethanolic solvent or N,N-dimethylformamide, at 40°C to 120°C with an amidine to provide pyrimidine IIc-2. In scheme IIc method 2, a malonitrile is heated in an ethanolic solvent or N,N-

dimethylformamide, at 40°C to 120°C with an amidine to provide pyrimidine IIc-4. In a similar manner intermediate IIc-6 may be treated with phosphorous oxychloride at reflux either with or without a cosolvent to produce the

5 intermediate dichloropyrimidine IIc-7, which is a useful intermediate, capable of reacting with a variety of nucleophiles in a manner similar to those depicted in schemes Ia through Ic.

Scheme IIc:

10



Scheme IIId illustrates the synthesis of  $\beta$ -ketoesters from a carboxylic acid which is available by many routes known to one skilled in the art of organic chemistry, for example hydrolysis of an ester. An illustration of a

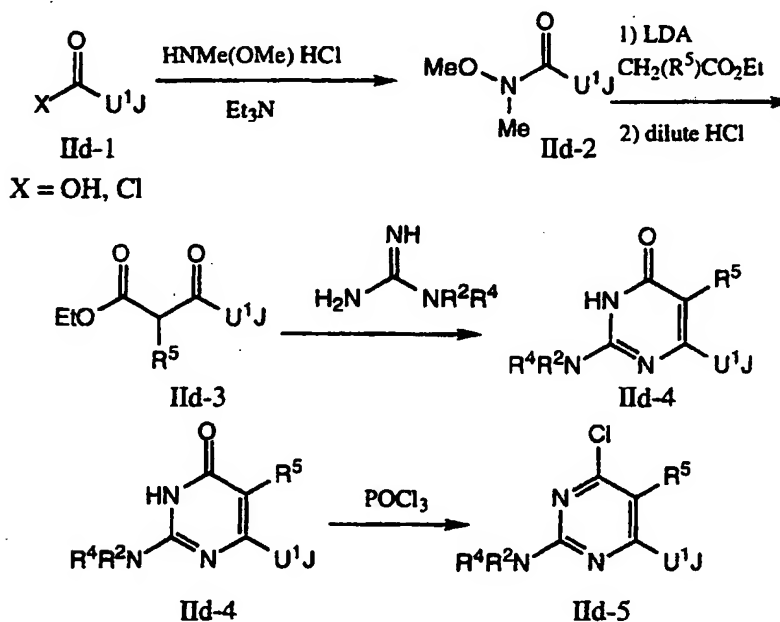
15 carboxylic acid intermediate useful in the preparation of

compounds of formula I is shown in scheme IIIc. A convenient preparation of  $\beta$ -ketoester and  $\beta$ -ketonitriles, from N-methoxy-N-methylamides has been reported by Turner, J.A., and Jacks, W.S in J. Org. Chem., 54, 4229-31, 1989.

- 5 The carboxylic acid may be converted to the acid chloride by many methods for example treatment with oxalyl chloride in an inert solvent such as methylene chloride with a catalytic amount of N,N-dimethylformamide. Alternatively, the carboxylic acid may be activated by reaction with many  
10 available reagents such as BOP reagent (benzotriazol-1-yloxytris(dimethylamino)phosphonium hexafluorophosphate) or a carbodiimide reagent such as dicyclohexylcarbodiimide with the addition of 1-hydroxybenzotriazole.

15

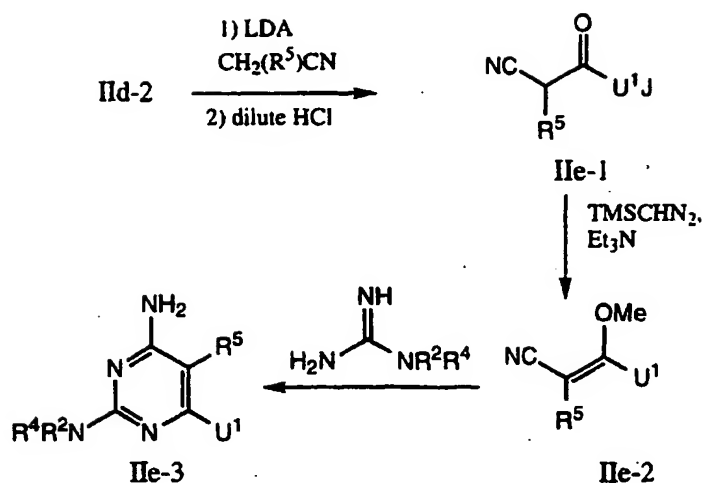
Scheme IIId:



- 20 Once the carboxylic acid has been activated reaction can occur with N,O-dimethylhydroxylamine hydrochloride or and a suitable base such as triethylamine or pyridine to produce N-methoxy-N-methylamide IId-2. A suitable ester which is either commercially available or readily prepared by a variety of methods known to one skilled in the art of

- organic synthesis is dissolved in a dry solvent such as tetrahydrofuran and cooled to a temperature in the range of -78°C to -20°C, and is added to a precooled solution of a suitable base is added such as lithium diisopropylamide or lithium bis(trimethylsilyl)amide. Addition of the N-methoxy-N-methylamide to the enolate solution at low temperature for a sufficient amount of time then allowing the reaction mixture to reach room temperature, and quenching with dilute aqueous acid to provide the ketoester IIId-3. There are many other means of preparing  $\beta$ -keto esters, for example, a synthesis of ketoesters from the acid chloride and Meldrum's acid followed by treatment with alcohol has been reported by Oikawa, Y., Sugano, K., Yonemitsu, O., J. Org. Chem, 43, 2087, 1978.
- The ketoester IIId-3 is treated with guanidine free base, prepared as described previously, or guanidine carbonate in an alcoholic solvent or N,N-dimethylformamide from room temperature to 120°C, until the reaction is deemed to have progressed by an analytical method such as TLC or HPLC, to provide the pyrimidone IIId-4. Additionally the pyrimidone IIId-4 may be treated with phosphorous oxychloride to provide intermediate IIId-5. As illustrated in schemes Ia-Ic, the chloropyrimidine is a useful intermediate in the synthesis of additional compounds via a nucleophilic displacement.

## Scheme IIe:



5        Scheme IIe illustrates the preparation of a pyrimidine from a  $\beta$ -ketonitrile. The intermediate IIId-2 is reacted with the anion of a nitrile to produce IIe-1. Reaction of IIe-1 with either diazomethane or trimethylsilyldiazomethane in the presence of a suitable base such as triethylamine provides the  $\beta$ -methoxyacrylate derivative IIe-2. Treatment of intermediate IIe-2 with a guanidine at temperatures ranging from 100°C to 200°C in a sealed tube generally provides the desired pyrimidine derivative IIe-3.

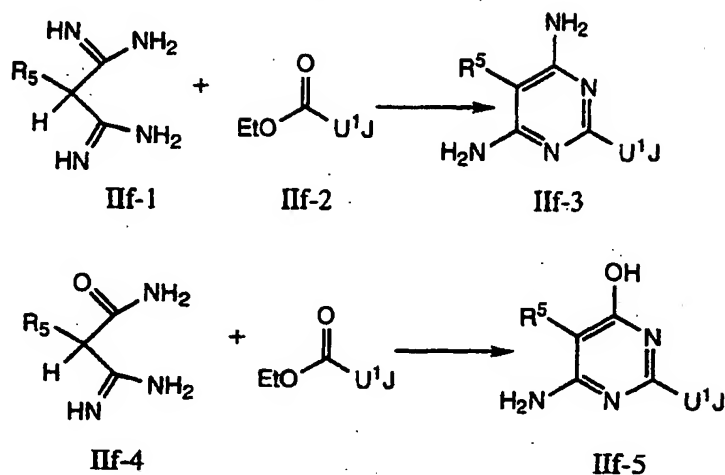
15        Another synthetic route to pyrimidines is also useful for the preparation of compounds in this invention, and is depicted in scheme IIIf. For a review of this approach to the synthesis of pyrimidines see Brown, D.J., in Comprehensive Heterocyclic Chemistry Vol. 3, pp. 107-108, (Katritzky A.R., and Rees, C.W ed's) Pergamon Press Ltd., New York, 1984.

20        Malondiamidine and substituted malondiamidines are readily prepared by one skilled in the art of organic synthesis from the readily available malononitriles by the Pinner reaction (for example see Meyer, H., Kurz, J., in Justus Liebigs Ann. Chem. (9) 1491-1504, 1978). Malonamamidine, the mixed amide amidine, is commercially available. Malondiamidine IIIf-1 is heated with an appropriate ester IIIf-2 in a suitable solvent such as an alcohol or N,N-dimethylformamide to provide the desired pyrimidines IIIf-3. In a similar manner

malonamamidine IIf-4 may be heated with an ester to provide pyrimidine IIf-5.

Scheme IIf:

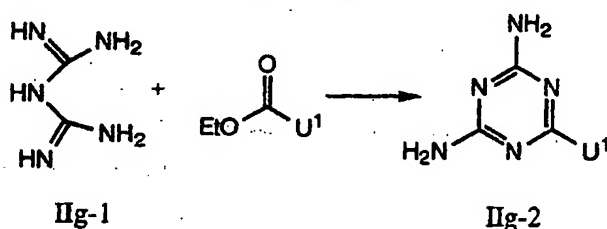
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In Scheme IIg, a triazine IIg-2 is prepared from a carboxylic ester by heating with biguanide IIg-1, (Karipides, D. and Fernelius, W.C., in *Inorganic Synthesis* 7, pp 56-59, 1962, John Wiley and Sons, New York.) in either an alcoholic solvent or N,N-dimethylformamide at a temperature ranging from 25°C to 80°C.

15

Scheme IIg:

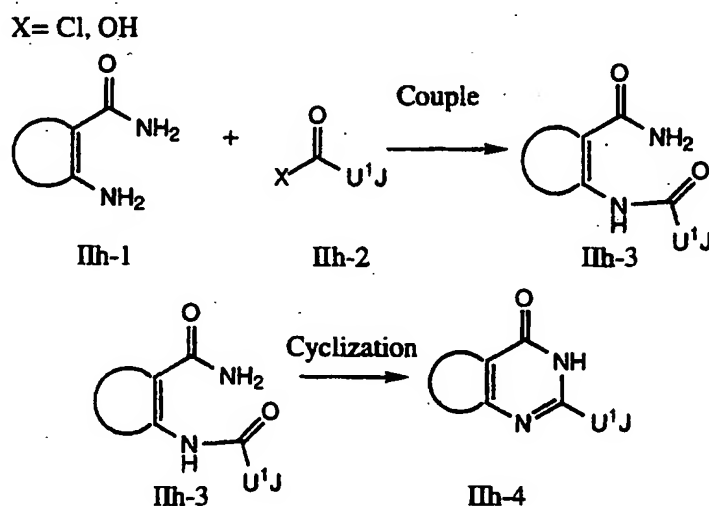


Another synthetic route to pyrimidines is also useful for the preparation of compounds in this invention, and is depicted in scheme IIh. Compounds which contain an aryl or heteroaryl ring with an ortho-aminocarboxamides (IIh-1) are either commercially available or readily available by methods known to one skilled in the art of organic

chemistry. Reaction of IIh-1 with either an acid chloride in the presence of a base such as pyridine or an acid group in the presence of a suitable coupling agent such as N,N'-dicyclohexylcarbodiimide, provide intermediate IIh-3.

- 5 Intermediates of type IIh-3 are readily cyclized to the pyrimidines IIh-4 under a wide variety of conditions which are known to one skilled in the art of organic chemistry, including heating in the presence of pyridine followed by treatment with acid.

10

Scheme IIh:

- 15 The synthesis of additional intermediates useful in the preparation of compounds of formula I is shown in schemes IIIa-IIIId.

Scheme IIIa illustrates one method for the preparation of esters useful as intermediates in the preparation of compounds of formula I it should be noted that these and similar compounds including the meta substituted analogs can be prepared by a wide variety of methods known to one skilled in the art of organic synthesis.

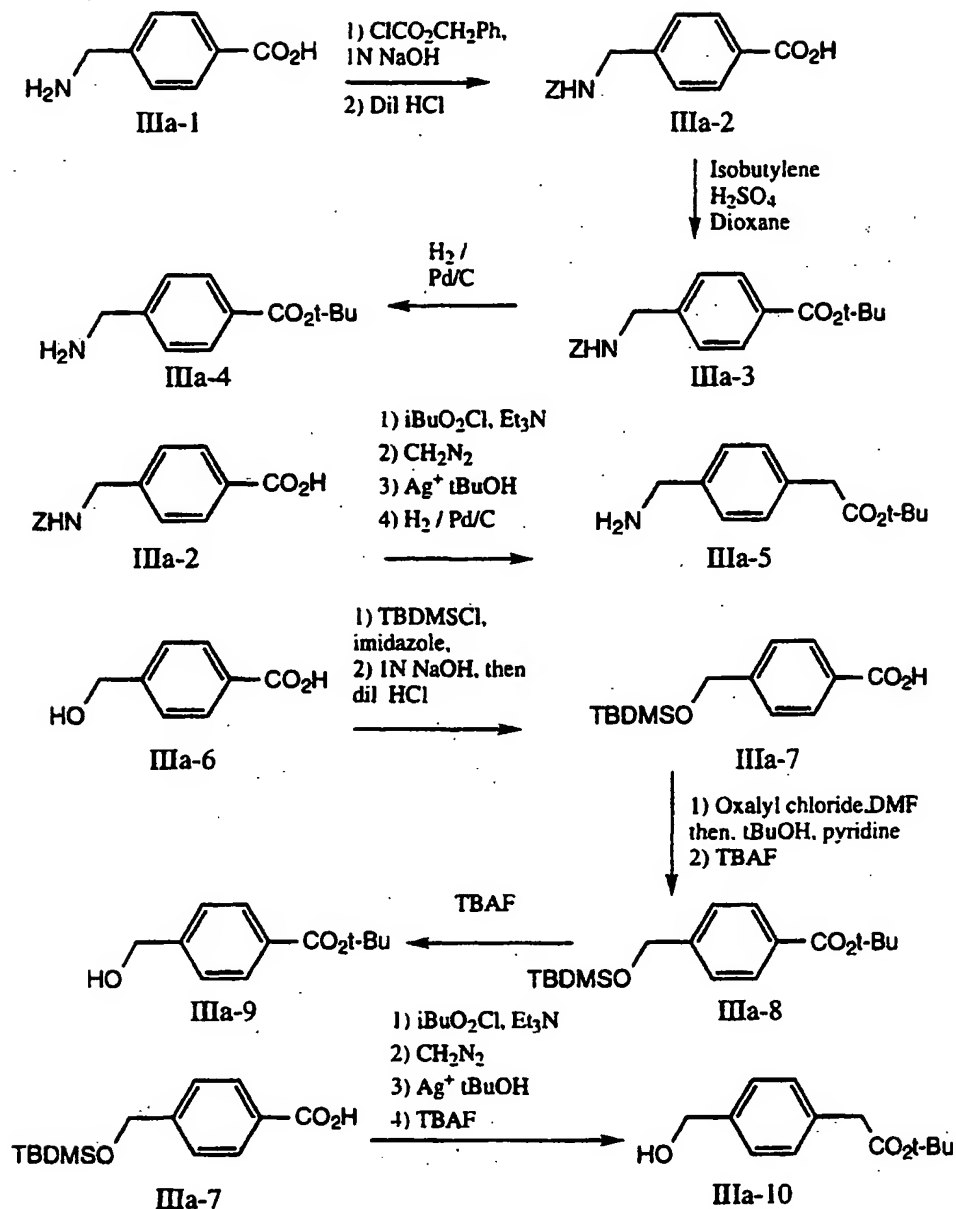
- 20 Aminomethylbenzoic acid (IIIa-1) and hydroxyaminobenzoic acid (IIIa-6) are commercially available. Aminomethylbenzoic acid (IIIa-1) is reacted with benzylchloroformate in the presence of sodium hydroxide with or without a cosolvent such as dioxane. Acidification of the

reaction mixture provides IIIa-2. Treatment of the acid with isobutylene and catalytic sulfuric acid in dioxane in a sealed pressure vessel provides IIIa-3. Hydrogenation in an alcoholic solvent with palladium on carbon provides the  
5 intermediate IIIa-4. Arndt-Eistert homologation of IIIa-2 followed by removal of the benzylcarbamate by hydrogenation in the presence of palladium on carbon provides the intermediate IIIa-5.

Hydroxyaminobenzoic acid (IIIa-6) is reacted with tert-  
10 butyldimethylsilyl chloride (TBDMS-Cl) in the presence of imidazole in a solvent such as tetrahydrofuran. Treatment of the the reaction mixture with dilute base followed by acidification provides the acid IIIa-7. Reaction of the acid with oxalyl chloride in a suitable solvent such as  
15 methylenechloride with a catalytic amount of N,N-dimethylformamide provides the acid chloride. The acid chloride is reacted with t-butanol in the presence of pyridine to provide IIIa-8. Treatment of IIIa-8 with tetrabutylammonium fluoride (TBAF) provides the intermediate  
20 alcohol IIIa-6. Arndt-Eistert homologation of IIIa-2 followed by removal of the TBDMS group to provide intermediate IIIa-10.



## Scheme IIIa:



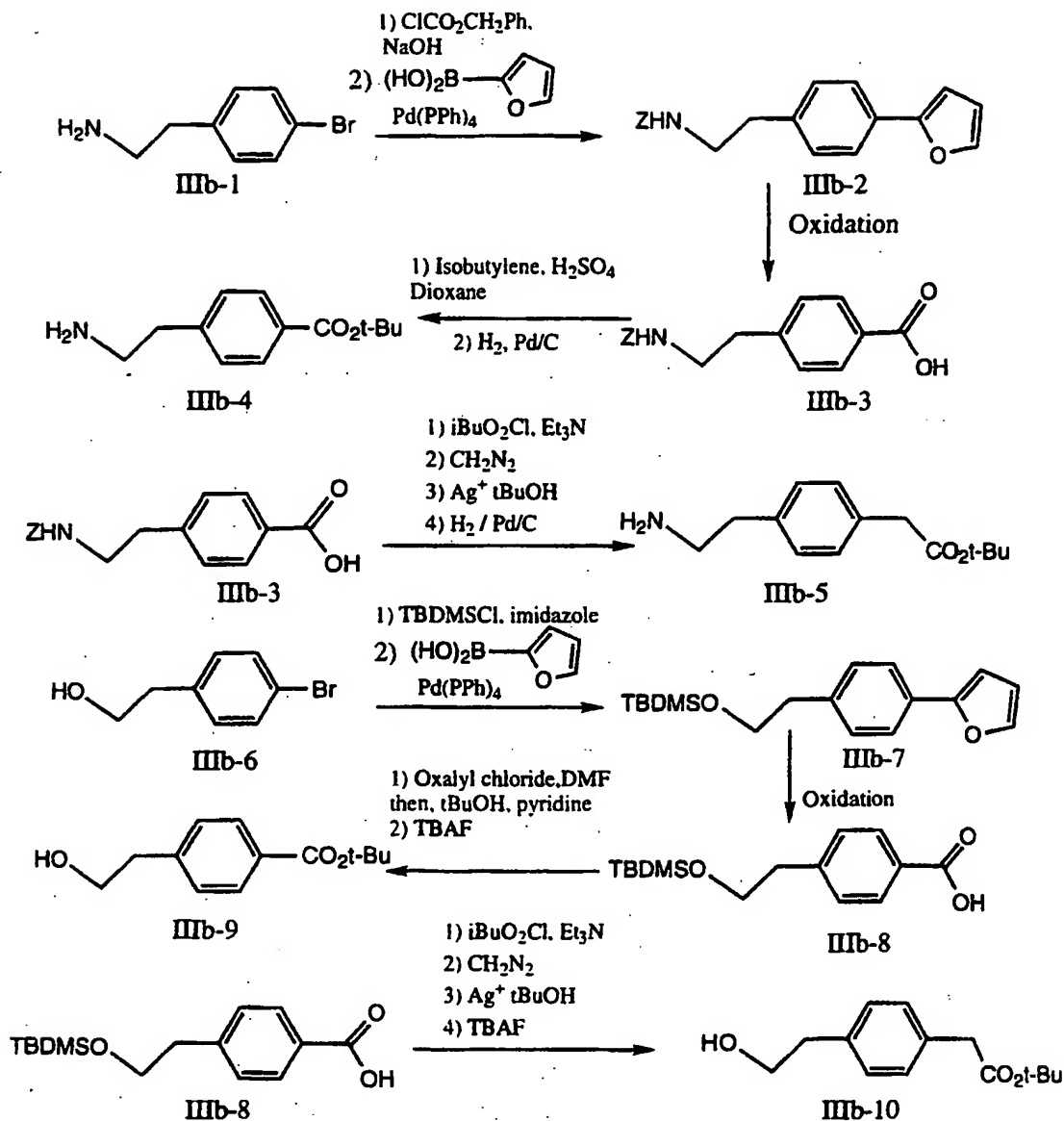
5        Scheme IIIb illustrates one method for the preparation of additional esters useful as intermediates in the preparation of compounds of formula I it should be noted that these and similar compounds including the meta substituted analogs can be prepared by a wide variety of

10    methods known to one skilled in the art of organic synthesis.

4-Bromophenethylamine (IIIb-1) is commercially available. Reaction with benzyl chloroformate in dioxane in the presence of sodium hydroxide, followed by aryl coupling with commercially available 2-furanboronic acid in the  
5 presence of a suitable catalyst such as tetrakis(triphenylphosphine) palladium (0) to provide IIIb-2. The furan may be converted to the carboxylic acid IIIb-3 by several methods including treatment with nitric acid and a vanadium salt (see Carbateas, P.M., and Williams, G.L., in  
10 J. Heterocycl. Chem. 11, 819-821, 1974) or by ozonolysis (see, Tsukamoto, T., Yoshiyama, T., Kitazume, T., in Tetrahedron: Asymmetry 2(8), 759-62, 1991). Treatment of the acid with isobutylene in dioxane with a catalytic amount of sulfuric acid followed by catalytic hydrogenation in the  
15 presence of palladium on carbon provides intermediate IIIb-4. Alternatively, the acid IIIb-3 may be subjected to an Arndt-Eistert homologation followed by catalytic hydrogenation to provide intermediate IIIb-5.

4-Bromophenethylalcohol (IIIb-6) is commercially  
20 available. Treatment with TBDMSCl and imidazole, followed by aryl coupling with commercially available 2-furanboronic acid in the presence of a suitable catalyst such as tetrakis(triphenylphosphine) palladium (0) to provide IIIb-7. Oxidation of furan in a manner similar to IIIb-2, provides  
25 the acid IIIb-8. The acid can be converted to the acid chloride with oxalyl chloride in methylene chloride with a catalytic amount of N,N-dimethylformamide. Treatment of the acid chloride with t-butanol and pyridine, followed by treatment with tetrabutylammonium fluoride solution provides  
30 the intermediate IIIb-9. Alternatively, the acid IIIb-8 may be subjected to an Arndt-Eistert homologation followed by catalytic hydrogenation to provide intermediate IIIb-10.

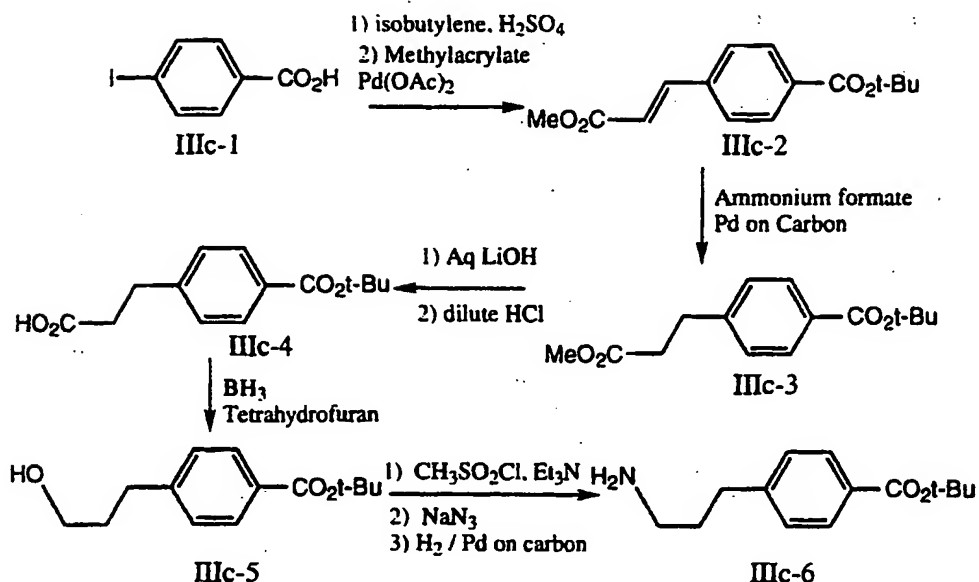
## Scheme IIIb:



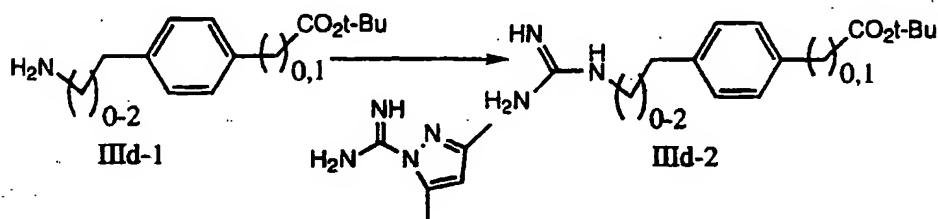
5        Scheme IIIc illustrates one method for the preparation  
 of additional esters useful as intermediates in the  
 preparation of compounds of formula I. It should be noted  
 that these and similar compounds including the meta  
 substituted analogs can be prepared by a wide variety of  
 10      methods known to one skilled in the art of organic  
 synthesis. illustrates the synthesis of some esters and acids

useful as intermediates in the preparation of compounds of formula I.

4-Iodobenzoic acid (IIIC-1) and 3-iodobenzoic acid are commercially available. The preparation of t-Butyl esters can be accomplished by many methods, for example treatment of the the acid with isobutylene in the presence of an acid such as sulfuric acid. The 4-iodoester is subjected to a Heck reaction with methyl acrylate in the presence of palladium acetate according to the method of Jeffrey (Jeffrey, T., J. Chem. Soc., Chem. Commun. 1287-89, 1984.) to provide IIIC-2. Reduction of the double bond can be accomplished under a variety of catalytic hydrogenation conditions for example, palladium on carbon with ammonium formate in methanol at reflux (Tam, S., Spicer, L.D. Syn. Comm. 22(18), 2683-2690, 1992) to provide intermediate IIIC-3. Hydrolysis of the methyl ester in the presence of the t-butyl ester usually requires basic conditions such as lithium or sodium hydroxide, followed by acidification with dilute to provide the mono-acid IIIC-4. The carboxylic acid may be reduced with borane in THF (see Yoon, N.M., Pak, C.S., Brown, H.C., Krishnamurthy, S., Stocky, T.P., in J.Org. Chem. 38, 2786-92, 1973.) to provide the alcohol IIIC-5. Treatment of the alcohol with methansulfonyl chloride and triethylamine to provide the mesylate, which may be reacted with sodium azide in N,N-dimethylformamide, to provide the alkylazide. Reduction of the azide to the intermediate amine IIIC-6 can be accomplished by several methods including hydrogenation with palladium on carbon as the catalyst, or by the Staudinger reaction which involves treatment of the azide with triphenylphosphine followed by treatment with water.

Scheme IIIc:

5 Alternatively the amines prepared in schemes IIIa-c may be converted to the guanidine by several methods including treatment with the commercially available 2-3,5-dimethylpyrazole-1-carboxamide nitrate.

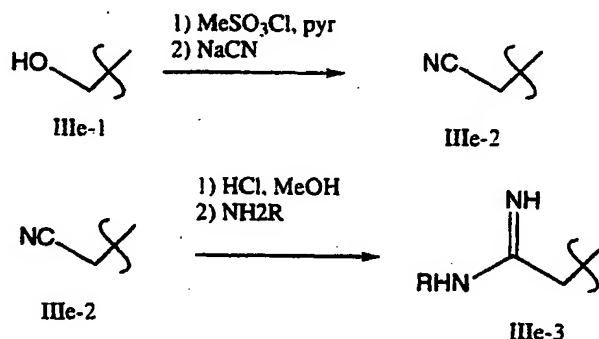
Scheme IIIId:

15 Scheme IIIe illustrates the synthesis of amidines useful as intermediates in this invention. Alcohols IIIe-1 for example such as IIIa-6, and IIIb-6 are readily converted to the corresponding nitrile IIIe-2 by formation of the sulfate ester followed by treatment with sodium or potassium cyanide. Amidines IIIc-3 are readily prepared by one skilled  
 20 in the art of organic chemistry by several methods including a method commonly referred to as the Pinner synthesis of

amidines which involves treatment of the nitrile with methanol and anhydrous HCl, either with or without, an added solvent such as methylene chloride or chloroform followed by the addition of an amine.

5

Scheme IIIe:



R = alkyl, aryl

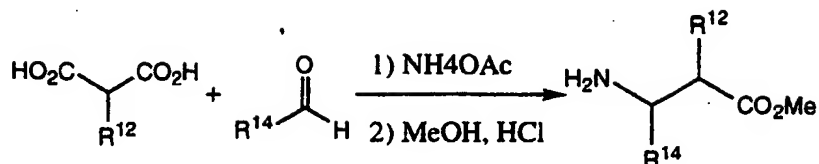
- 10 The appropriately substituted racemic  $\beta$ -amino acids may be purchased commercially or, as is shown in Scheme IV, Method 1, prepared from the appropriate aldehyde, malonic acid and ammonium acetate according to the procedure of Johnson and Livak (J. Am. Chem. Soc. 1936, 58, 299).
- 15 Racemic  $\beta$ -substituted- $\beta$ -amino esters may be prepared through the reaction of dialkylcuprates or alkyllithiums with 4-benzoyloxy-2-azetidinone followed by treatment with anhydrous ethanol Scheme IV, Method 2, or by reductive amination of  $\beta$ -keto esters as is described in published PCT
- 20 patent application W09316038. (Also see Rico et al., J. Org. Chem. 1993, 58, 7948-51.) Enantiomerically pure  $\beta$ -substituted- $\beta$ -amino acids can be obtained through the optical resolution of the racemic mixture or can be prepared using numerous methods, including: Arndt-Eistert homologation of
- 25 the corresponding  $\alpha$ -amino acids as shown in Scheme IV, Method 3 (see Meier, and Zeller, Angew. Chem. Int. Ed. Engl. 1975, 14, 32; Rodriguez, et al. Tetrahedron Lett. 1990, 31, 5153; Greenlee, J. Med. Chem. 1985, 28, 434 and references cited within); and through an enantioselective hydrogenation
- 30 of a dehydroamino acid as is shown in Scheme IV, Method 4

(see Asymmetric Synthesis, Vol. 5, (Morrison, ed.) Academic Press, New York, 1985). A comprehensive treatise on the preparation of  $\beta$ -amino acid derivatives may be found in published PCT patent application WO 9307867, the disclosure of which is hereby incorporated by reference. The synthesis of  $N^2$ -substituted diaminopropionic acid derivatives as shown in Scheme IV method 5 can be carried out via Hoffman rearrangement of a wide variety of asparagine derivatives as described in Synthesis, 266-267, (1981).

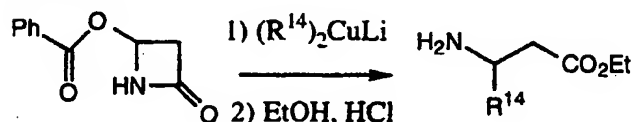
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## Scheme IV

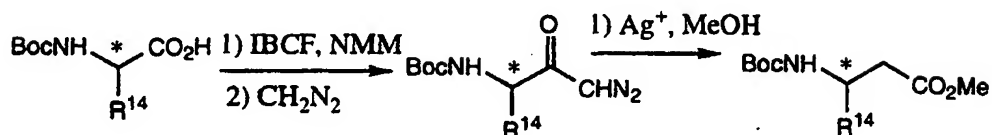
## Method 1



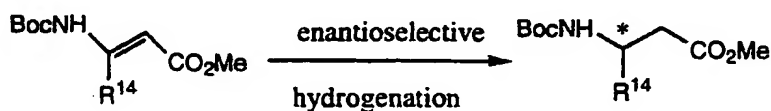
## Method 2



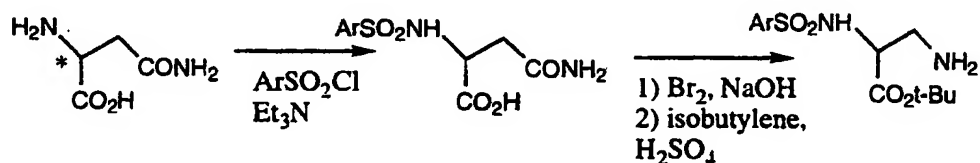
## Method 3



## Method 4



## Method 5

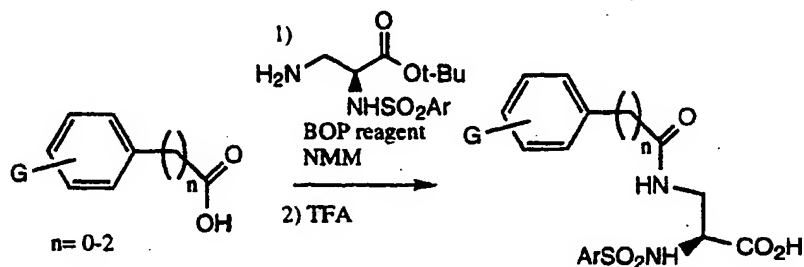


5        Scheme V depicts the coupling acids prepared in Schemes  
 10        IIIa and IIIb with the amines prepared in sheme IV Coupling  
 of the resulting acids to appropriately substituted  $\alpha$ - or  $\beta$ -  
 amino esters affords an intermediate which can be  
 deprotected to give compounds of Formula (IA). The coupling  
 is carried out using any of the many methods for the  
 formation of amide bonds known to one skilled in the art of  
 organic synthesis. These methods include but are not limited  
 to conversion of the acid to the corresponding acid



chloride, or use of standard coupling procedures such as the azide method, mixed carbonic acid anhydride (isobutyl chloroformate) method, carbodiimide (dicyclohexylcarbodiimide, diisopropylcarbodiimide, or water-soluble carbodiimides) method, active ester (p-nitrophenyl ester, N-hydroxysuccinic imido ester) method, carbonyldiimidazole method, phosphorus reagents such as BOP-Cl. Some of these methods (especially the carbodiimide) can be enhanced by the addition of 1-hydroxybenzotriazole.

Scheme V:



The detailed processes for preparing the compounds of Formula (IA) are illustrated by the following Examples. It is, however, understood that this invention is not limited to the specific details of these examples. Melting points are uncorrected. Proton nuclear magnetic resonance spectra ( $^1\text{H}$  NMR) were measured in chloroform-d ( $\text{CDCl}_3$ ) unless otherwise specified and the peaks are reported in parts per million (ppm) downfield from tetramethylsilane (TMS). The coupling patterns are reported as follows: s, singlet; d, doublet; t, triplet; q, quartet; qt, quintet; m, multiplet.

Example A-23

2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenyl)carbonyl]aminopropionic acid trifluoroacetate salt

A. N-(2,4,6 trimethylphenyl)sulfonyl-L-asparagine

L- Asparagine (20.0 g, 0.15M) was suspended in a mixture of tetrahydrofuran (130mL) and water (250mL). Triethylamine (49 g,

0.48M) was added followed by mesitylenesulfonyl chloride (49.7 g, 0.227M). The reaction mixture became slightly exothermic and the solids dissolved over a period of 0.5 h. to yield a yellow solution. The reaction mixture was stirred for 3 h at room temperature, then washed with ether, and methylene chloride. The aqueous layer was separated, and acidified to ca. pH = 1.5 with conc. HCl, during which time a thick precipitate formed. After 0.5h. the product was filtered, washed with water and dried to yield a white solid (34 g, 72%). m.p. = 193.5 - 195°C <sup>1</sup>H NMR (DMSO) δ 2.24 (s, 3H), 2.28 (dd, 1H), 2.45 (dd, 1H), 2.55 (s, 6H), 3.98 (m, 1H), 6.88 (br s, 1H), 6.99 (s, 2H), 7.32 (br s, 1H), 7.82 (d, 2H), 12.58 (br s, 1H). Mass spectrum ESI m/z = 315.2, (M+H base peak).

15 B. 3-Amino-2-(S)-N-(2,4,6 trimethylphenyl)sulfonylaminopropionic acid

Sodium hydroxide (32 g, 0.80 M), was dissolved in water (200mL) and cooled in an ice bath. Bromine (19.2g, 0.12 M) was added dropwise over 5 min. and the mixture allowed to stir for 15 min. The product of Ex. A-23, Part A, (31.44 g, 0.10 M), was added in several portions over a period of ca. 10 min. during which time the yellow color faded. The reaction mixture was gently heated on a steam bath during which time the internal temperature rose to ca. 85 °C. After 1h, the reaction mixture was allowed to cool to room temperature then cooled in an ice bath. The reaction mixture was cautiously acidified to pH= 6 with conc. HCl, during which time a solid formed and gas was evolved. The solid was filtered, washed with cold water, and allowed to dry overnight, to yield the product as a white solid (23.9 g; 83%). <sup>1</sup>H NMR (DMSO) δ 2.26 (s, 3H), 2.59 (s, 6H), 2.80 (dd, 1H), 2.94 (dd, 1H), 3.07 (dd, 1H), 7.06 (s, 2H). Mass spectrum ESI m/z 287.2 (M+H, base peak).

C. tert-Butyl-3-Amino-2-(S)-N-(2,4,6-trimethylphenyl)sulfonylaminopropionate

35 The product of Ex. A-23, Part B, (11.45 g, 0.04M), was placed in a Parr bottle, and dissolved in dioxane (170mL), and conc. sulfuric acid (11mL) was added. The reaction mixture was cooled in a dry ice / acetone bath and ca. 185 ml of isobutylene was added. The

bottle was sealed and agitated for 114 h. The bottle was de-  
pressurized then purged with nitrogen for a brief time. The  
reaction mixture was poured into a rapidly stirred mixture of  
water (225mL) containing sodium hydroxide (17 g) and ether  
5 (600mL) which had been pre-cooled in an ice bath. The layers were  
separated. The aqueous layer was extracted with additional ether.  
The pH of the aqueous layer was carefully adjusted with conc. HCl  
to pH = 11 and extracted four times with ether. The organic  
layers from the pH 11 adjusted extraction were combined, dried  
10 with anhydrous sodium sulfate, filtered and evaporated to yield  
the product as a viscous oil which solidified (8.64g, 63%). <sup>1</sup>H  
NMR (CDCl<sub>3</sub>) δ 1.28 (s, 9H), 2.28 (s, 3H), 2.67 (s, 6H), 2.93 (m,  
2H), 3.69 (m, 1H), 6.95 (s, 2H).

15 D. 4-Iodobenzoic acid tert-butyl ester

4-Iodobenzoic Acid (25g, 0.10M) was suspended in 200ml of  
anhydrous dioxane containing 14ml of concentrated sulfuric acid.  
Isobutylene (200ml) was condensed and added to the suspension.  
The reaction vessel was sealed and stirred at room temperature  
20 for 3 days, during which time most of the material dissolved. The  
reaction mixture was cautiously poured into saturated sodium  
bicarbonate solution and extracted with ethyl acetate. The  
organic layer was dried with anhydrous sodium carbonate, filtered  
and evaporated to a colorless oil (18g, (60%). <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ  
25 1.59 (s, 9H), 7.68 (d, J = 8 Hz, 2H), 7.75 (d, J = 8Hz, 2H).

E. 4-(tert-Butyloxycarbonyl)trans-cinnamic acid methyl ester

The product of Ex. A-23, Part D, (10.5g, 34.5mM) was  
dissolved in N,N-dimethylformamide (30mL). Tetra n-butylammonium  
30 chloride monohydrate (9.56g, 34.5mM), sodium bicarbonate (9.32g,  
86.2mM), methyl acrylate (5.92g, 69.0mM), and palladium acetate  
(155mg, 0.69mM) was added. The reaction was stirred at 30°C,  
overnight. The reaction mixture was poured into 300mL of water  
and the precipitate collected. The crude product was dissolved in  
35 methylene chloride and passed through a pad of silica gel until  
all the product had eluted from the pad. The solvent was  
evaporated to yield a light redish-brown solid (9.0 g, 99%). <sup>1</sup>H  
NMR (CDCl<sub>3</sub>) δ 1.60 (s, 9H), 3.81 (s, 3H), 6.51 (d, 16Hz, 1H), 7.58

(d, J = 8 Hz, 2H), 7.70, (d, J = 16Hz, 1), 7.98, (d, J = 8Hz, 2H), mass spec (CI) m/z = 263 (M+H)<sup>+</sup> base peak.

5 F. 4-(tert-Butyloxycarbonyl)hydrocinnamic acid methyl ester

The product of Ex. A-23, Part E, (from a different run) (14g, 56.0mM) was dissolved in methanol. Palladium on carbon 10% (2.2g) was wetted with approximately 3mL of water and added cautiously to the methanol solution followed by ammonium formate (18g, 0.285M). The reaction mixture was refluxed for 3h, filtered through celite and evaporated to yield a colorless oil (14g, 99%). <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 1.59 (s, 9H), 2.64 (t, J = 7Hz, 2H), 3.00 (t, J = 7Hz, 2H), 3.64 (s, 3H), 7.24 (d, J = 8Hz, 2H), 7.90, (d, J = 8Hz, 2H).

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G. 4-(tert-Butyloxycarbonyl)hydrocinnamic acid

The product of Ex. A-23, Part F, (14g, 55.5mM) was dissolved in 90mL of tetrahydrofuran. 1N Lithium hydroxide (90 ml) was added and the reaction stirred at room temperature for 20 min. The reaction mixture was poured into 200mL of 1:1 mixture of 1N HCl and saturated citric acid, and extracted with ethyl acetate. The organic layer was dried over magnesium sulfate, filtered and evaporated to yield a white solid (13g 100%). <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 1.59 (s, 9H), 2.70 (t, J = 7Hz, 2H), 3.00 (t, J = 7Hz, 2H), 7.24 (d, J = 8Hz, 2H), 7.90, (d, J = 8Hz, 2H).

25

H. 4-(tert-Butyloxycarbonyl)hydrocinnamic acid N-methyl-O-methylamide

The product of Ex. A-23, Part G, (5.2g, 22.2mM) was dissolved in 10mL of N,N-dimethylformamide. N,O-dimethylhydroxylamine hydrochloride (2.60g, 22.6mM), N-methylmorpholine (6.73g, 66.6mM), and benzotriazole-1-yloxy-tris(dimethylamino)phosphonium hexafluorophosphate (BOP reagent) (11.78g, 26.6mM) was added and the reaction mixture stirred at room temperature overnight. The reaction mixture was poured into 100mL of water and extracted with ethyl acetate. The organic layer was separated, dried over magnesium sulfate, filtered and evaporated to yield a brown oil which was purified by flash

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column chromatography (hexane/ethyl acetate 3:1) to yield a tan oil (4.2g, 65%). <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 1.59 (s, 9H), 2.75 (t, J = 7Hz, 2H), 3.00 (t, J = 7Hz, 2H), 3.18 (s, 3H), 3.60 (s, 3H), 7.24 (d, J = 8Hz, 2H), 7.90, (d, J = 8Hz, 2H).

5

I. 5-[4-(tert-Butyloxycarbonyl)phenyl]-3-oxopentanitrile

Lithium bis(trimethylsilyl)amide 1M solution in hexane (12ml, 12.0mM) was added to 12mL of anhydrous tetrahydrofuran, and cooled to -78°C. After 0.5h, anhydrous acetonitrile (492mg, 12.0mM) was added dropwise. After 0.25h, the product of Ex. A-23, Part H, (2.93g, 10.0mM) was dissolved in 3mL of anhydrous tetrahydrofuran and added dropwise to the rapidly stirred reaction mixture. After 3h at -78°C the reaction mixture was warmed to 0°C for 1h, the quenched by pouring into 1N HCl. The product was extracted with ethyl acetate. The organic layer was separated, dried over magnesium sulfate, filtered and evaporated to yield a yellow oil (2.7g, 99%). <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 1.59 (s, 9H), 2.98 (m, 4H) 3.22 (s, 2H), 7.22 (d, J = 8Hz, 2H), 7.92, (d, J = 8Hz, 2H).

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J. 5-[4-(tert-Butyloxycarbonyl)phenyl]-3-methoxy-2-pentenitrile

The product of Ex. A-23, Part I, (2.70g, 9.89mM) was dissolved in 100mL of a 1:1 mixture of methanol and acetonitrile. N,N-diisopropyl-N-ethylamine (1.53g, 11.8mM) was added followed by trimethylsilyldiazomethane 2M solution in hexane (30mL, 60mM) was added, and the reaction mixture stirred overnight at room temperature. The reaction was quenched by the dropwise addition of glacial acetic acid until gas evolution subsided, and the solvent evaporated. The crude oil was purified by flash column chromatography (hexane/ethyl acetate 3:1). The product appears by NMR to be a mixture of cis and trans isomers. The data for the major isomer is reported. <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 1.59 (s, 9H), 2.42 (t, J = 7Hz, 2H), 2.82, (t, J = 7Hz, 2H), 4.10 (s, 3H), 6.84 (d, J = 8Hz, 1H) 7.22 (d, J = 8Hz, 2H), 7.92, (d, J = 8Hz, 2H).

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K. 4-[2-(2,4-Diaminopyrimidin-6-yl)ethyl]benzoic acid

The product of Ex. A-23, Part J, (1.0g, 3.48mM) was dissolved in ethanol. Guanidine hydrochloride (1.09g, 10.4mM) and

potassium tert-butoxide (1.38g, 11.1mM) was added and the reaction mixture refluxed overnight. NMR analysis of an aliquot did not show evidence of pyrimidine formation. The solvent was removed and the residue was heated at 160°C for 1h. NMR analysis of an aliquot showed that the pyrimidine ring had formed but the tert-butyl ester had cleaved. The solid residue was dissolved in 1:1 mixture of water and acetonitrile and purified by reverse phase (C18 water-acetonitrile linear gradient) HPLC. Evaporation of the appropriate fractions yielded a white solid (270mg, 30%).  
10 <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 2.84 (t, J = 7Hz, 2H), 3.02, (t, J = 7Hz, 2H), 4.10 (s, 3H), 5.80 (s, 1H) 7.30 (d, J = 8Hz, 2H), 7.92, (d, J = 8Hz, 2H). mass spec (ESI) m/z = 259 (M+H)<sup>+</sup> base peak

15 L. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenyl)carbonyl]aminopropionic acid tert-butyl ester

The product of Ex. A-23, Part K, (65mg, 0.25mM) and the product of Ex. 1, Part C (103mg, 0.03mM) were dissolved in 1mL of N,N-dimethylformamide. Benzotriazole-1-yloxy-  
20 tris(dimethylamono)phosphonium hexafluorophosphate (133mg, 0.30mM) and N-methylmorpholine (76.3mg, 0.75mM) were added and the reaction mixture was stirred overnight at room temperature. The reaction mixture was poured into 30mL of water and allowed to stand for 1h. The precipitate was collected, washed with an  
25 additional 20mL of water and dried to yield a white solid (145mg, 99%). <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 1.19, (s, 9H), 2.20, (s, 3H), 2.58, (s, 6H), 2.75 (t, J = 7Hz, 2H), 2.98, (t, J = 7Hz, 2H), 3.45 (dd, J = 13Hz, 8Hz, 1H), 3.65 (dd, J = 13Hz, 6Hz, 1H), 4.01 (dd, J = 8Hz, 5Hz, 1H) 5.75 (s, 1H), 6.88 (s, 2H), 7.27 (d, J = 8Hz, 2H),  
30 7.65, (d, J = 8Hz, 2H). mass spec (ESI) m/z = 583 (M+H)<sup>+</sup> base peak

35 M. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenyl)carbonyl]aminopropionic acid trifluoroacetate salt

The product of Ex. A-23, Part L, (144mg, 0.24mM) was dissolved in 2mL of trifluoroacetic acid and stirred for 1 h. at room temperature. The solvent was removed and the residue

- purified by reverse phase (C18 water-acetonitrile linear gradient) HPLC. The appropriate fractions were evaporated to remove the volatile solvents and then the water removed by lyophilization to yield a white solid. mp 145-150°C <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 1.19, (s, 9H), 2.18, (s, 3H), 2.58, (s, 6H), 2.85 (t, J = 7Hz, 2H), 3.05, (t, J = 7Hz, 2H), 3.45 (dd, J = 13Hz, 8Hz, 1H), 3.70 (dd, J = 13Hz, 6Hz, 1H), 4.06 (dd, J = 8Hz, 5Hz, 1H) 5.84 (s, 1H), 6.82 (s, 2H), 7.30 (d, J = 8Hz, 2H), 7.64, (d, J = 8Hz, 2H). mass spec (ESI negative ion) m/z = 640 (M+TFA)<sup>-</sup>, 526 (M-H)<sup>-</sup> base peak, HRMS calc'd for C<sub>25</sub>H<sub>3</sub>N<sub>6</sub>O<sub>5</sub>S + H: 527.2076, found 527.2064. Anal. calc'd for C<sub>27</sub>H<sub>31</sub>F<sub>3</sub>N<sub>6</sub>O<sub>7</sub>S: C, 50.62, H, 4.89, N, 13.12, found: C, 50.77, H, 4.89, N, 12.91.

Example A-272

- 15 2-[(S)-((2,4,6-trimethylphenyl)sulfonyl)amino]3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenyl)carbonyl]aminopropionic acid sodium salt.

- 20 A. 5-[4-(tert-Butyloxycarbonyl)phenyl]-3-oxopentanoic acid ethyl ester

- Lithium bis(trimethylsilyl)amide 1M solution in hexane (12mL, 12.0mM) was added to 12mL of anhydrous tetrahydrofuran, and cooled to -78°C. After 0.5h, anhydrous ethyl acetate (1.06g, 12.0mM) was added dropwise. After 0.25h, the product of Ex. A-23, Part H, (2.93g, 10.0mM) was dissolved in 3mL of anhydrous tetrahydrofuran and added dropwise to the rapidly stirred reaction mixture. After 3h at -78°C the reaction mixture was warmed to 0°C for 1h, the quenched by pouring into 1N HCl. The product was extracted with ethyl acetate. The organic layer was separated, dried over magnesium sulfate, filtered and evaporated to yield a colorless oil (1.7g, 54%). <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 1.60 (s, 9H), 2.98 (m, 4H) 3.41 (s, 2H), 7.22 (d, J = 8Hz, 2H), 7.92, (d, J = 8Hz, 2H).

- 35 B. 4-[2-(2-Aminopyrimid-4-one-6-yl)ethyl]benzoic acid tert-butyl ester

The product of Ex. A-272, Part A, (1.73g, 5.41mM) and guanidine carbonate (485mg, 2.69mM) were dissolved in ethanol and

refluxed overnight. The reaction mixture was cooled to room temperature and a white solid was collected by filtration and dried under vacuum (1.60g, 94%). <sup>1</sup>H NMR (d<sub>6</sub>-DMSO) δ 1.48 (s, 9H), 2.50 (t, J = 7Hz, 2H), 2.88 (t, J = 7Hz, 2H), 5.34 (s, 1H), 6.48 (br s, 2H), 7.24 (d, J = 8 Hz, 2H), 7.76 (d, J = 8Hz, 2H), 10.60 (br s, 1H).

C. 4-[2-(2-Aminopyrimid-4-one-6-yl)ethyl]benzoic acid trifluoroacetate salt

The product of Ex. A-272, Part B, (300mg, 0.95mM) was dissolved in 5mL of trifluoroacetic acid and stirred for 1h at room temperature. The solvent was evaporated to yield a white solid. (355mg, 100%) <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 2.82 (t, J = 7Hz, 2H), 3.02 (t, J = 7Hz, 2H), 5.80 (s, 1H), 7.34 (d, J = 8 Hz, 2H), 7.92 (d, J = 8Hz, 2H).

D. 2-[(S)-((2,4,6-trimethylphenyl)sulfonyl)amino]3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenyl)carbonyl]aminopropionic acid tert-butyl ester

The product of Ex. A-272, Part C, (from a different batch) (500mg, 1.34mM) and the product of Ex. A-23, Part C (551mg, 1.34mM) were dissolved in 3mL of N,N-dimethylformamide. Benzotriazole-1-yloxy-tris(dimethylamino)phosphonium hexafluorophosphate (712mg, 1.61mM) and N-methylmorpholine (406mg, 4.02mM) were added and the reaction mixture was stirred overnight at room temperature. The reaction mixture was poured into 30mL of water and allowed to stand for 1h. The precipitate was collected, dissolved in methanol and evaporated to yield a white solid (830mg, 106%) <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 1.20, (s, 9H), 2.18, (s, 3H), 2.58, (s, 6H), 2.68 (t, J = 7Hz, 2H), 2.98, (t, J = 7Hz, 2H), 3.43 (dd, J = 13Hz, 8Hz, 1H), 3.64 (dd, J = 13Hz, 6Hz, 1H), 4.02 (dd, J = 8Hz, 5Hz, 1H) 5.54 (s, 1H), 6.86 (s, 2H), 7.24 (d, J = 8Hz, 2H), 7.61 (d, J = 8Hz, 2H). mass spec (ESI neg ion) m/z = 582 base peak

E. 2-[(S)-((2,4,6-trimethylphenyl)sulfonyl)amino]3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenyl)carbonyl]aminopropionic acid



The product of Ex. A-272, Part D, (280mg, 0.45mM) was dissolved in trifluoroacetic acid and stirred at room temperature for 1h. The solvent was evaporated and the residue suspended in toluene and the solvent evaporated. The residue  
5 was purified by reverse phase (C18 water-acetonitrile linear gradient) HPLC. Evaporation of the solvent (bath < 45°C) provided a white solid (240mg, 101%) <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 2.18, (s, 3H), 2.58, (s, 6H), 2.82 (t, J = 7Hz, 2H), 3.02, (t, J = 7Hz, 2H), 3.43 (dd, J = 13Hz, 8Hz, 1H), 3.70 (dd, J = 13Hz, 6Hz,  
10 1H), 4.05 (dd, J = 7Hz, 5Hz, 1H) 5.64 (s, 1H), 6.80 (s, 2H), 7.30 (d, J = 8Hz, 2H), 7.62 (d, J = 8Hz, 2H). mass spec (ESI) m/z = 528.1, (M+H)<sup>+</sup> base peak

F. 2-[(S)-((2,4,6-trimethylphenyl)sulfonyl)amino]3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt

The product of Ex. A-272, Part E, (100mg, 0.19mM) was suspended in 5mL of ethanol and 1N sodium hydroxide (0.19ml, 0.19mM) was added. The reaction was shaken until all of the  
20 material dissolved. The solution was filtered and evaporated. The residue was triturated with a 1:1 mixture of ethanol and ether, and the white solid was dried under vacuum (98mg, 94%). <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 2.18, (s, 3H), 2.58, (s, 6H), 2.64 (t, J = 7Hz, 2H), 2.98, (t, J = 7Hz, 2H), 3.50 - 3.70 (m, 3H) 5.58 (s,  
25 1H), 6.82 (s, 2H), 7.24 (d, J = 8Hz, 2H), 7.62 (d, J = 8Hz, 2H). mass spec (ESI) m/z = 528.1, (M+H)<sup>+</sup> base peak

Example A-482

2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2,4-diaminotriazin-6-yl)ethylphenylcarbonyl)aminopropionic acid

A. 4-[2-(2,4-Diaminotriazin-6-yl)ethyl]benzoic acid

Biguanide sulfate (1.3g 6.53mM) (prepared according to the method of Karipides, D., and Fernelius, W.C. in Inorg. Synth. 7,  
35 pp. 56-58, 1962) is dissolved in a solution of sodium hydroxide (1.0g, 25mM) and methanol 20mL. The reaction mixture is stirred at room temperarue for 0.5h then at reflux for 0.5h. The hot solution is filtered and most of the solvent removed until a

precipitate forms. 10mL of ether is added and the solvent is decanted. The residue is redissolved in 40 ml of warm (approx. 50°C) methanol. The product of Ex. A-23, Part F, (1.40g, 5.55mM, was added and the reaction mixture allowed to stir at room temperature overnight. The product, 4-[2-(2,4-Diaminotriazin-6-yl)ethyl]benzoic acid tert-butyl ester, was filtered and dried under vacuum to yield a white solid (1.1g, 62%). <sup>1</sup>H NMR (d<sub>6</sub>-DMSO, δ 1.46 (s, 9H), 2.60 (t, J = 7Hz, 2H), 2.96 (t, J = 7Hz, 2H), 7.24 (d, J = 8 Hz, 2H), 7.76 (d, J = 8Hz, 2H). The ester (500mg, 1.59mM) was dissolved in 5mL of trifluoroacetic acid, stirred for 1 h. at room temperature and the solvent evaporated. The residue was purified by reverse phase (C18 water-acetonitrile linear gradient) HPLC. Evaporation of the solvent (bath < 45°C) provided a white solid (325mg, 79%) <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 2.92 (t, J = 7Hz, 2H), 3.12, (t, J = 7Hz, 2H), 7.32 (d, J = 8Hz, 2H), 7.92, (d, J = 8Hz, 2H). mass spec (ESI) m/z = 260 (M+H)<sup>+</sup> base peak.

B. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2,4-diaminotriazin-6-yl)ethylphenyl)carbonyl]aminopropionic acid tert-butyl ester

The product of Ex. A-482, Part A, (65mg, 0.25mM) and the product of Ex. A-23, Part C (102mg, 0.03mM) were dissolved in 1mL of N,N-dimethylformamide. Benzotriazole-1-yloxy-tris(dimethylamono)phosphonium hexafluorophosphate (133mg, 0.30mM) and N-methylmorpholine (76.3mg, 0.75mM) were added and the reaction mixture was stirred overnight at room temperature. The reaction mixture was poured into 30mL of water and allowed to stand for 1h. The precipitate was collected, washed with an additional 20mL of water and dried to yield a white solid (137mg, 93%). <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 1.19, (s, 9H), 2.20, (s, 3H), 2.58, (s, 6H), 2.75 (t, J = 7Hz, 2H), 3.02, (t, J = 7Hz, 2H), 3.42 (dd, J = 13Hz, 8Hz, 1H), 3.62 (dd, J = 13Hz, 6Hz, 1H), 3.99 (t, J = 7Hz, 1H), 6.82 (s, 2H), 7.24 (d, J = 8Hz, 2H), 7.60, (d, J = 8Hz, 2H). mass spec (ESI) m/z = 584 (M+H)<sup>+</sup>.

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C. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2,4-diaminotriazin-6-yl)ethylphenyl)carbonyl]aminopropionic acid

The product of Ex. A-482, Part B, (137mg, 0.23mM) was dissolved in 4mL of trifluoroacetic acid, stirred for 1 h. at room temperature and the solvent evaporated. The residue was purified by reverse phase (C18 water-acetonitrile linear gradient) HPLC. Evaporation of the solvent (bath < 45°C) provided a white solid (110mg, 88%) <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 2.18, (s, 3H), 2.58, (s, 6H), 2.82 (t, J = 7Hz, 2H), 3.10, (t, J = 7Hz, 2H), 3.42 (dd, J = 13Hz, 8Hz, 1H), 3.70 (dd, J = 13Hz, 6Hz, 1H), 4.07 (dd, J = 7Hz, 5Hz, 1H), 6.80 (s, 2H), 7.30 (d, J = 8Hz, 2H), 7.62 (d, J = 8Hz, 2H). mass spec (ESI) m/z = 528.1, (M+H)<sup>+</sup>, mass spec (ESI negative ion) m/z = 526.2, (M+H)<sup>+</sup>, base peak.

#### Example A-650

2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(4-aminoguinazolin-2-yl)aminomethyl)phenyl]carbonylaminopropionic acid

##### A. 2,4-Dichloroquinazoline

Benzoyleneurea (732mg, 4.5 mmol) and 4mL of phosphorous oxychloride were refluxed under nitrogen over night. The reaction mixture was poured into 50mL of ice water, and the precipitate filtered. The precipitate was washed with additional cold water and triturated with petroleum ether. The solid was dried to yield 510mg (57%) mp 114-115°C mass spec (ESI) m/z = 199, (M+H)<sup>+</sup> base.

##### B. 2-Chloro-4-aminoguinazoline

The product of Ex. A-650, Part A, (2.07g, 10.4 mmol) was heated with 32mL of conc. ammonium hydroxide in an oil bath between 90-100°C for 1.5h. The reaction was cooled to room temperature and stirred overnight. The reaction mixture was filtered and dissolved in boiling 1N HCl and filtered. The filtrate was neutralized with 1N NaOH. The producte precipitated and was filtered, washed with cold water and dried to yield 831mg (46%) of a light yellow solid, mp 232°C.

##### C. 4-Benzylloxycarbonylaminomethylbenzoic acid

4-(Aminomethyl)benzoic acid 15.1 g (100 mmol) was dissolved in 200mL dioxane and 100mL 1.000 N NaOH and cooled in a 0 °C ice bath. The mixture was treated dropwise with benzylchloroformate 14.3mL (100 mmol) followed by the  
5 dropwise addition of 100mL of 1.000 N NaOH. The mixture was stirred at room temperature for 18 hours. The mixture was neutralized by adding 100mL of 1.000 N HCl followed by dilution with dichloromethane. A white solid precipitated out which was filtered. The solid was dried in vacuo to  
10 afford 10.8 g (38.9%). <sup>1</sup>H NMR (300MHz, DMSO-d<sub>6</sub>): δ 4.24 (d, 2H, J=6.2Hz); 5.01 (s, 2H); 7.31-7.34 (m, 7H); 7.84-7.88 (m, 3H); 12.85 (s, 1H).

D. 4-Benzylloxycarbonylaminomethylbenzoic acid t-butyl ester

15 The product of Ex. A-650, Part C 5.0 g (17.5 mmol) was suspended in 30mL of dioxane and treated with conc. sulfuric acid 3.0mL (56.3 mmol). 50mL of isobutylene was then condensed into the mixture and the pressure vessel sealed and stirred at room temperature for 66 hours (the pressure  
20 reaches approximately 20 psi). The solution never becomes clear. The unreacted isobutylene was then removed in vacuo and the mixture neutralised to pH 10 with NaOH and extracted with dichloromethane (2 x 100mL). The organic layer was dried (MgSO<sub>4</sub>), filtered, concentrated and the residue  
25 purified by flash chromatography (200 g silica gel) using 1:3 EtOAc:hexane to elute 3.7 g of a colorless oil (61.8%). <sup>1</sup>H NMR (300MHz, CDCl<sub>3</sub>): δ 1.59 (s, 9H); 4.43 (d, 2H, J=5.9Hz); 5.14 (s, 2H); 7.3-7.36 (m, 7H); 7.94 (d, 2H, J=8.1Hz).

30

E. Aminomethylbenzoic acid t-butyl ester

A solution of Ex. A-650, Part D 3.6 g (10.6 mmol) in 50mL ethanol was shaken with a suspension of 300mg of 10% Palladium on carbon under 1 atm hydrogen pressure at room  
35 temperature for 15 hours. TLC in 1:3 EtOAc:hexane indicated disappearance of starting material. The mixture was filtered through a celite pad. The filtrate was concentrated to provide 1.6 g of a colorless oil (72.9%). <sup>1</sup>H

NMR (300MHz, CDCl<sub>3</sub>): δ 1.59 (s, 9H); 3.93 (s, 2H); 7.37 (d, 2H, J=8.5Hz); 7.96 (d, 2H, J=8.4Hz).

5 F. 4-(2-(4-Aminoquinazolin-2-yl)aminomethyl)benzoic acid t-butyl ester

The intermediate Ex. A-650, Part E, 103mg (0.5 mmol), and the product of Ex. A-650, Part B, 90mg (0.5 mmol), and diisopropylethylamine 71mg (0.6 mmol) were dissolved in 5mL dimethylformamide and heated at 100 °C for 18 hours. TLC in 10 1:8 MeOH:CHCl<sub>3</sub> indicated disappearance of starting material. The mixture was poured into water and extracted with ethyl acetate. The organic layer was washed with water (2 x 50mL). The organic layer was separated, dried (MgSO<sub>4</sub>), filtered, and concentrated. The residue was triturated with 15 dichloromethane:ether mixture to provide 83mg of as an off-white solid (24% yield). <sup>1</sup>H NMR (300MHz, CDCl<sub>3</sub>): δ 1.55 (s, 9H); 4.75 (d, J = 3 Hz, 2H), 5.66 (br s, 2H); 7.15 (t, J=7 Hz, 1H); 7.60-7.82 (m, 5H); 7.85 (d, 2H, J=8Hz);

20 G. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(4-aminoquinazolin-2-yl)aminomethyl)phenyl]carbonylamino-propionic acid t-butyl ester

The product of Ex. A-650, Part F, (65mg, 0.22mM) and the product of Ex. A-23, Part C (171mg, 0.26mM) were 25 dissolved in 1mL of N,N-dimethylformamide. Benzotriazole-1-yloxy-tris(dimethylamono)phosphonium hexafluorophosphate (133mg, 0.30mM) and N-methylmorpholine (76.3mg, 0.75mM) were added and the reaction mixture was stirred overnight at room temperature. The reaction mixture was poured into 30mL of 30 water and extracted with ethyl acetate. The organic layer was dried with magnesium sulfate, filtered and evaporated. The residue was purified by flash column chromatography to yield 77mg (55%). HRMS calc for C<sub>32</sub>H<sub>39</sub>N<sub>6</sub>O<sub>5</sub>S = 619.270266 found 619.270249.

35

H. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(4-aminoquinazolin-2-yl)aminomethyl)phenyl]carbonylamino-propionic acid

The product of Ex. A-650, Part G, (70mg, 0.11mM) was dissolved in 4mL of 1:1 mixture of trifluoroacetic acid and methylene chloride and stirred for 2 hours. The solvent was removed under reduced pressure and the residue purified by reverse phase HPLC to yield 38mg as a white solid (50% yield). <sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>): 2.13 (s, 3H); 2.51 (s, 6H); 3.31-3.40 (m, 1H); 3.46-3.55 (m, 1H); 3.93-3.98 (m, 1H); 4.73 (d, 2H, J=5.9Hz); 6.86 (s, 2H); 7.44 (d, 2H, J=8.4Hz); 7.70 (d, 2H, J=8.4Hz); 7.82 (t, 1H, J=7.3Hz); 8.03 (d, 1H, J=9.5Hz); 8.21 (d, 1H, J=8.0Hz); 8.42 (t, 1H, J=5.9Hz). HRMS calcd for C<sub>28</sub>H<sub>31</sub>N<sub>6</sub>O<sub>5</sub>S [M + H]<sup>+</sup> 563.207665, found 563.207600.

#### Example A-1210

15 3-[4-[2-(Imidazo-4-oxopyrimidin-2-yl)ethyl]phenylcarbonyl]-amino]-2-[(2,4,6-trimethylphenyl)sulfonyl]aminopropanoic acid

20 A.4-(4-(t-Butoxycarbonyl)phenylethylcarbonylamino)imidazole-5-carboxamide

A mixture of the product of Ex. A-23, Part G (400mg, 1.6 mmole), 4-aminoimidazole-5-carboxamide hydrochloride (312mg, 1.92 mmol), diisopropylethylamine (0.8 ml, 4.6 mmol) and Castro's reagent (1.08 g, 2.4 mmol) in 5 ml anhydrous DMF was stirred overnight under N<sub>2</sub> in a 70°C oil bath. After cooling to room temperature, the dark brown reaction mixture was poured into 50 ml water and extracted 3X with ethyl acetate. The combined extracts were washed with brine, dried over anhydrous sodium sulfate, filtered and evaporated. The crude was purified by filtration through a pad of silica gel eluted with ethyl acetate/methylene chloride/ethanol 10/10/0.5 to 10/10/1 to give the amide in 68% yield (0.39 g). MS 303.1 (M+H-tBu)<sup>+</sup> 359.2 (M+H)<sup>+</sup> 381.1 (M+Na)<sup>+</sup> (base peak).

35

B. 3-[4-[2-(Imidazo-4-oxopyrimidin-2-yl)ethyl]benzoic acid

A mixture of 6 ml 2N NaOH and 0.2 ml pyridine was brought to reflux and 0.36 gm of the product of Ex. A-1210

Part A, was added in one portion. The whole was maintained at reflux for 15 min whereupon the hot reaction mixture was poured into ice. The pH was adjusted to acid with conc HCl and the mixture swirled occasional until the ice was melted.

- 5 The solid which resulted was collected by filtration and washed thoroughly with water then dried in vacuo at 50°C overnight to give the cyclized product as the free acid, 0.198g white solid (69%). MS m/z 284.9 (M+H)<sup>+</sup> 306.9 (M+Na)<sup>+</sup>.

10 C. 3-[4-[2-(Imidazo-4-oxopyrimidin-2-yl)ethyl]phenyl-carbonyl]amino]-2-[(2,4,6-trimethylphenyl)sulfonyl]-aminopropanoic acid

- A mixture of the product of Ex. A-1210 Part B (65mg, 0.23 mmol), and the product of Ex. A-23, Part C (86mg, 0.25  
15 mmol), 50 microliters N-methylmorpholine (0.45 mmol), and Castro's reagent (0.15mg, 0.34 mmol) in 2 ml DMF was stirred overnight at room temperature under N<sub>2</sub>. Reaction was poured into water and resulting solid collected and washed thoroughly with water then dried overnight in vacuo at 50°C  
20 to provide 0.14 g desired product as an off white solid. The crude solid was dissolved in a mixture of 2-3 ml methylene chloride and 0.5 ml trifluoroacetic acid and the solution stirred overnight at room temperature. The solution was evaporated and triturated with ether to give a solid.  
25 Purification by reverse phase HPLC and conversion to the corresponding sodium salt by treatment with gave the title compound as a fluffy white solid, 30mg. NMR: (D<sub>2</sub>O) δ 1.65 (3H, s) 2.10 (6H, s) 3.05, 5H, m), 3.43 (1H, dd), 3.55 (1H, dd), 6.03, 2H, s) 7.13 (4H, s) 7.83 (1H, s). HRMS calcd for C<sub>26</sub>H<sub>29</sub>N<sub>6</sub>O<sub>6</sub>S: 553.186930. Found: 553.186600.  
30

Example A-1266

- 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenyl]carbonyl]aminopropionic  
35 acid

A. 4-[2-(2-Amino-6-chloropyrimidin-4-yl)aminomethyl]benzoic acid t-butyl ester

The product of Ex. A-650, Part E, (207mg, 1.0 mmol), 2-amino-4,6-dichloropyrimidine (164mg, 1.0 mmol), and diisopropylethylamine (388mg, 3.0 mmol) were dissolved in N,N-dimethylformamide (5mL) and refluxed for 18h. The  
5 reaction mixture was diluted with ethyl acetate and washed with water. The organic layer was washed with brine, separated, dried over magnesium sulfate, filtered and evaporated. The product was purified by flash column chromatography (methanol/chloroform gradient 0.5% to 3%) the  
10 provide the product (318mg, 95%) as a yellow oil. <sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>): [M + H]<sup>+</sup> 334.8.

B. 4-[2-(2-Amino-6-chloropyrimidin-4-yl)aminomethyl]benzoic acid

15 The product of Ex. A-1266, Part A, (318mg, 0.95 mmol) was dissolved in methylene chloride (2mL) and trifluoroacetic acid (2mL) was added. The reaction mixture was stirred at room temperature for 4h. The solvent was removed under reduced pressure to provide the product.

20 C. 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]3-[4-(2-(2-amino-6-chloropyrimidin-4-yl)aminomethyl)phenyl]carbonylaminopropionic acid t-butyl ester

The product of Ex. A-1266, Part B, (280mg, 1.0mmol),  
25 the product of Ex. A-23, Part C (342mg, 1.0mmol), N-methylmorpholine (400mg, 4.0 mmol), and Benzotriazole-1-yloxy-tris(dimethylamono)phosphonium hexafluorophosphate, were dissolved in N,N-dimethylformamide (10mL), and stirred at room temperature for 18h. The reaction mixture was  
30 diluted with ethyl acetate and washed with water. The organic layer was washed with brine, separated, dried over magnesium sulfate, filtered and the solvent removed under reduced pressure. The product was purified by flash column chromatography (methanol/chloroform gradient 1% to 3%) to  
35 provide the product (512mg, 85%)



D. 2-[ (S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenyl]carbonylaminopropionic acid t-butyl ester

The product of Ex. A-1266, Part C, (300mg, 0.5 mmol) and 10% palladium on carbon (30mg), was dissolved in ethyl alcohol (5mL). The reaction mixture was stirred under an atmosphere of hydrogen (balloon), for 18h. The reaction mixture was filtered through celite, evaporated and purified by column chromatography (methanol/chloroform gradient 1% to 3%) to provide the product (183mg, 65%)  
 HRMS calcd for  $C_{28}H_{37}N_7O_5S$  [M + H]<sup>+</sup> 569.254616, found 569.255236.

E. 2-[ (S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenyl]carbonylaminopropionic acid

The product of Ex. A-1266, Part D, was dissolved in methylene chloride (2mL), and trifluoroacetic acid (2mL) was added. The reaction mixture was stirred for 2h, and the solvent evaporated under reduced pressure. The residue purified by reverse phase HPLC to yield 151mg (93%) of the product. <sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>): 2.15 (s, 3H); 2.52 (s, 6H); 3.31-3.40 (m, 1H); 3.49-3.57 (m, 1H); 3.94-4.01 (m, 1H); 4.63 (d, 2H, J=5.8Hz); 6.15 (d, 1H, J=6.9Hz); 6.87 (s, 2H); 7.38 (d, 2H, J=8.1Hz); 7.68-7.71 (d, 3H); 8.05 (d, 1H, J=9.5Hz); 8.43 (t, 1H, J=5.9Hz); 9.21 (t, 1H, J=5.9Hz).  
 HRMS calcd for  $C_{24}H_{29}N_6O_5S$  [M + H]<sup>+</sup> 513.192015, found 513.191100.

30

Example T14-1

11-(2-aminopyridin-4-yl)-11-aza-8-oxo-7-aza-7-methyl-5-oxo-4-aza-3-((R)-phenethyl)undecanoic acid trifluoroacetate salt

A. 3-[ (N-tertbutyloxycarbonyl-N-methylglycyl)amino]-3-((R)-phenylethyl)propionic acid methyl ester.

5-Phenyl-3-(R)-aminovaleric acid methyl ester acetate salt (see US 5,264,420, Nov 23, 1993) (550mg, 2.06 mmol) was dissolved in water (10mL) and sodium carbonate was added

until the reaction mixture was basic to litmus paper. The mixture was extracted with methylene chloride, dried over potassium carbonate and evaporated, and the residue was dissolved in 2mL of N,N-dimethylformamide. Boc Sarcosine  
5 (290mg, 1.53 mmol), BOP-reagent (730mg, 1.65 mmol) and diisopropylethylamine (234mg, 1.81 mmol) was added, and the reaction mixture was stirred overnight at room temperature. The reaction mixture was poured into 0.1N HCl and extracted with ethyl acetate. The organic layer was dried over  
10 magnesium sulfate, evaporated and purified by flash column chromatography (hexane - ethyl acetate 3:1) to yield 300mg (52%) of product. <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 7.30-7.05 (m, 5H), 4.36-4.24 (m, 1H), 3.84 (s, 2H), 3.64 (s, 3H), 2.94 (s, 3H), 2.58-2.52 (m, 2H), 2.00-1.60 (m, 4H), 1.44 (s, 9H). mass  
15 spectrum m/z = 401.0 (M+Na)<sup>+</sup> base peak, 381.0 (M+H)<sup>+</sup>.

B. 3-[(N-methylglycinyl)amino]-3-[(R)phenylethyl]propionic acid methyl ester trifluoroacetate salt

The product of example T14-1, part A, (300mg, 0.79  
20 mmol) was dissolved in methylene chloride (1mL). Trifluoroacetic acid (1mL) was added and the reaction mixture was stirred at room temperature for 0.5h. The solvent was evaporated and the residue purified by reverse phase HPLC. <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 7.30-7.12 (m, 5H), 4.28-4.18 (m,  
25 1H), 3.72 (s, 2H), 3.62 (s, 3H), 2.70 (s, 3H), 2.68-2.44 (m, 4H), 1.90-1.78 (m, 2H). mass spectrum m/z 279.0 (M+H)<sup>+</sup>, base peak.

C. 3-[(2-amino-6-chloropyridin-4-yl)amino]propionic acid tert-butyl ester  
30

2-amino-4,6-dichloropyrimidine (164mg, 1.0 mmol), beta-alanine tert-butyl ester hydrochloride (181mg, 1.0 mmol) and diisopropylethylamine (148mg, 1.1 mmol) was dissolved in N,N-dimethylacetamide and heated at 130 °C for 3h. The  
35 reaction mixture was allowed to cool to room temperature and poured into water (5mL), and the precipitate collected and dried to yield 100mg (37%) of the product as a white solid. <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 5.80 (s, 1H), 3.52 (br t, 2H), 2.44.

(t, J = 7 Hz, 2H), 1.22 (s, 9H). mass spectrum m/z 273.1 (M+H)<sup>+</sup>, base peak.

D. 3-[(2-amino-6-chloropyrimidin-4-yl)aminolpropionic acid

- 5       The product of example T14-1, part C, (100mg, 0.37 mmol) was dissolved in 4N HCl in dioxane (2mL), and stirred at room temperature for 1 h., and the solvent evaporated to yield the product as a white solid. <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 6.18 (s, 1H), 3.70 (br t, 2H), 2.60 (t, J = 7 Hz, 2H). mass  
10   spectrum m/z 217.0 (M+H)<sup>+</sup>, base peak.

E. 11-(2-amino-6-chloropyridin-4-yl)-11-aza-8-oxo-7-aza-7-methyl-5-oxo-4-aza-3-((R)-phenethyl)undecanoic acid methyl ester

- 15       The product of Example T14-1, part B, (50mg, 0.20 mmol), the product of Example T14-1, part D, (78mg, 0.20 mmol) Bop-reagent (105mg, 0.24 mmol), and diisopropylethyl amine was dissolved in 0.5 ml of N,N-dimethylformamide and stirred at room temperature over night. The reaction mixture  
20   was poured into water and extracted with ethyl acetate. The organic layer was evaporated to yield the product. <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 7.28-7.10 (m, 5H), 5.80 (s, 1H), 4.28-4.18 (m, 1H), 4.10-4.00 (m, 1H), 3.60 (3, 3H), 2.88 (s, 3H), 2.78-2.42 (m, 8H), 1.90-1.78 (m, 2H). mass spectrum m/z 477.0  
25   (M+H)<sup>+</sup>, (35%).

F. 11-(2-amino-6-chloropyridin-4-yl)-11-aza-8-oxo-7-aza-7-methyl-5-oxo-4-aza-3-((R)-phenethyl)undecanoic acid trifluoroacetate salt

- 30       The product of Example T14-1, part E, was dissolved in tetrahydrofuran (0.5mL) and 1N lithium hydroxide was added, and the mixture stirred at room temperature for 15 min. The reaction was quenched with excess trifluoroacetic acid and the solvent evaporated. The residue was purified by reverse  
35   phase HPLC to yield 50mg of a white solid. <sup>1</sup>H NMR (CD<sub>3</sub>OD) δ 7.30-7.10 (m, 5H), 6.10 (s, 1H), 4.28-4.18 (m, 1H), 4.10-4.00 (m, 1H), 3.78-3.60 (m, 2H), 2.88 (s, 3H), 2.78-2.42 (m,

8H), 1.90-1.78 (m, 2H). mass spectrum  $m/z$  485.0 ( $M+Na$ )<sup>+</sup> (35%), 463.0 ( $M+H$ )<sup>+</sup>, (80%).

5 G. 11-(2-amino-6-pyridin-4-yl)-11-aza-8-oxo-7-aza-7-methyl-5-oxo-4-aza-3-((R)-phenethyl)undecanoic acid  
trifluoroacetate salt

The product of Example T14-1, part F (40mg, 0.11 mmol) was dissolved in ethyl alcohol (5mL), and palladium on carbon 10% (15mg) was added. The reaction mixture was stirred under  
10 a balloon of hydrogen over night. The reaction mixture was filtered and evaporated to yield the product. <sup>1</sup>H NMR (CD<sub>3</sub>OD)  $\delta$  7.50-7.42 (m, 1H), 7.28-7.10 (m, 5H), 6.06-6.00 (m, 1H), 4.32-4.20 (m, 1H), 4.12-3.98 (m, 1H), 3.78-3.60 (m, 4H), 3.06 (s, 3H), 2.80-2.50 (m, 6H), 1.90-1.78 (m, 2H). mass  
15 spectrum  $m/z$  429.0 ( $M+H$ )<sup>+</sup>, base peak.

Example E-19

20 3-([1-[2-(2-Amino-4-oxopyrimidin-6-yl)ethyl]indazol-5-yl]carbonylamino)-2(S)-(2,4,6-trimethylbenzenesulfonyl-amino)propionic acid

A. Ethyl 3-methyl-4-nitrobenzoate. A mixture of 3-methyl-4-nitrobenzoic acid (362.3g, 2.0 mol), N,N-dimethylformamide (2000mL), sodium bicarbonate (200g, 2.38 mol) and iodoethane  
25 (623.9g, 4.0 mol) was stirred at 70 °C for 18 h. The mixture was allowed to cool to room temperature and poured into water (2000 mL). The resulting solid was collected by filtration, washed with water and dried. The solid was washed further with hexane and dried to provide the title  
30 product (382.1g, 91%) as an off-white solid, mp 51-52.5 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>)  $\delta$  8.04-7.98 (m, 3H), 4.42 (q, 2H), 2.63 (s, 3H), 1.42 (t, 3H); Mass spectrum (NH<sub>3</sub>-CI)  $m/z$  210 (100%,  $M+H$ )<sup>+</sup>.

35 B. Ethyl 3-methyl-4-aminobenzoate. A mixture of the product prepared according to Example E-19 Part A (183.96g, 880 mmol), tin (II) chloride hydrate (1025g, 4.54 mol) and ethanol (3500mL) was heated at reflux for 2 h. The mixture

was cooled and diluted with water (3500mL) and the pH was adjusted to 8.5. The mixture was diluted further with additional water, and extracted with ethyl acetate. The organic extracts were dried (MgSO<sub>4</sub>), filtered and

5 concentrated to provide the title product (136.62g, 87%) as an off-white solid, mp 76-78 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 7.78 (s, 1H); 7.76 (d, 1H), 6.63 (d, 1H), 4.31 (q, 2H), 3.99 (bs, 2H), 2.19 (s, 3H), 1.38 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 180.1025, found  
10 180.1023.

C. 5-Ethoxycarbonylindazole. A mixture of the product prepared according to Example E-19 Part B (250.55g, 1.4 mol), potassium acetate (143.3g, 1.46 mol), acetic anhydride  
15 (285.9g, 2.8 mol) and chloroform (ethanol-free; 2700mL) was stirred at room temperature. The temperature rose to 40 °C, then started to decline, at which time no starting material was detected by TLC. A mixture of 18-crown-6 (75g, 280 mmol) and n-amyl nitrite (364.5g, 3.1 mol) was added and the  
20 mixture was heated at reflux overnight. The cooled mixture was washed with saturated aqueous sodium bicarbonate, then with water, and was dried (MgSO<sub>4</sub>), filtered and concentrated. The residue was combined with that from another batch (711.3g) and distilled through a 10 cm  
25 vigreux column under vacuum to provide 1-Acetyl-5-ethoxycarbonyl-indazole (576g, 82%), bp 115-165 °C (1.0 Torr). This intermediate was combined with hydrochloric acid (6N; 2000mL) and ethanol (2000mL), and the mixture was stirred overnight at room temperature. The mixture was  
30 concentrated under vacuum, and the solid was combined with water. The pH of the mixture was adjusted to 8 with aqueous ammonia, and the mixture was extracted with dichloromethane. The organic phase was dried (MgSO<sub>4</sub>), filtered and concentrated to provide a solid (460g). This was  
35 recrystallized from acetonitrile (1000mL), and the crystals were washed with ethanol, then hexane, and dried to provide the title product (281 g, 60%) as a tan solid, mp 122-124 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 10.23 (bs, 1H), 8.57 (s, 1H), 8.20 (s,

1H), 8.10 (d, 1H), 7.53 (d, 1H), 4.42 (q, 2H), 1.42 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 191.0821, found 191.0838.

- 5 D. 1-(2-Methoxycarbonylethyl)-5-ethoxycarbonylindazole. A mixture of the product prepared according to Example E-19 Part C (9.51g, 50 mmol), methyl acrylate (4.5mL, 50 mmol), tert-butanol (4.78mL, 50 mmol) and tetrahydrofuran (1000mL) was treated with potassium tert-butoxide (1.0 M in tetrahydrofuran; 2.5mL, 2.5 mmol) and the resulting solution was heated at reflux for 1 h. The mixture was cooled to room temperature, treated with hydrochloric acid (1.0 M; 5 mL, 5 mmol) and concentrated to provide a viscous oil which slowly crystallized. The solid mass was broken up and dried further under vacuum to provide the title product (14.0g, 100%) which was used without further purification: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.51 (s, 1H), 8.10 (s, 1H), 8.08 (d, 1H), 7.51 (d, 1H), 4.68 (t, 2H), 4.41 (q, 2H), 3.63 (s, 3H), 3.01 (t, 2H), 1.42 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 277.1188, found 277.1188.

- E. 1-(2-Carboxyethyl)-5-ethoxycarbonylindazole. The product prepared according to Example E-19 Part D (14 g, 50 mmol) was dissolved in tetrahydrofuran (100 mL) and treated at room temperature with a solution of lithium hydroxide monohydrate (4.2g, 100 mmol) in water (100mL). The solution was stirred for 10 min, then was treated with hydrochloric acid (1.0 M, 110mL, 110 mmol). The tetrahydrofuran was removed to provide a sticky solid which became powdery after stirring the slurry at room temperature. The solid was collected by filtration, washed with water and dried to provide the title product (12g, 91%) as a white solid, mp 102-110 °C; <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.50 (s, 1H), 8.12 (s, 1H), 8.08 (d, 1H), 7.48 (d, 1H), 4.67 (t, 2H), 4.41 (q, 2H), 3.05 (t, 2H), 1.41 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 263.1032, found 263.1014.

F. 1-(4-Ethoxycarbonyl-3-oxobutyl)-5-ethoxycarbonyl-indazole. A suspension of the product prepared according to Example E-19 Part E (8.0g, 30.5 mmol) in dichloromethane (175mL) was treated dropwise over 5 min at room temperature with oxalyl chloride (4.0mL, 45.8 mmol). Gas evolution was noted, which gradually slowed. After 1 h, N,N-dimethylformamide (1 drop) was added, causing renewed gas evolution. After 16 h, the mixture was heated briefly to reflux, then cooled and concentrated. In a separate flask, a solution of 2,2-dimethyl-4,6-dioxo-1,3-dioxane (Meldrum's acid; 4.62g, 32 mmol) in dichloromethane (15mL) was cooled to 0 °C and treated with pyridine (6.2mL, 76.3 mmol) over 5 min. The acid chloride prepared above was dissolved in dichloromethane (50mL) and added dropwise to the cooled solution over 50 min. The mixture was then allowed to warm to room temperature with stirring. After 4.25 h, the mixture was poured into hydrochloric acid (1.0 M, 120mL) and ice, and the mixture was stirred until the ice melted. The layers were separated, and the aqueous phase was extracted twice with dichloromethane. The combined organic phases were washed with hydrochloric acid (1.0 M), dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residual orange gum was dissolved in ethanol (300mL) and heated to reflux with stirring. After 5.5 h, the solution was cooled to room temperature and concentrated to a volume of about 50mL. The precipitate was isolated by filtration, washed with a small amount of ethanol, and dried to provide the title compound (6.85g, 68%) as a cream-colored solid: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.50 (s, 1H), 8.08 (s+d, 2H), 7.53 (d, 1H), 4.66 (t, 2H), 4.40 (q, 2H), 4.15 (q, 2H), 3.46 (s, 2H), 3.28 (t, 2H), 1.42 (t, 3H), 1.23 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 333.1450, found 333.1460.

G. 1-(2-(2-Amino-4-oxopyrimidin-6-yl)ethyl)-5-ethoxycarbonylindazole. A suspension of the product prepared according to Example E-19 Part F (350 mg, 1.05 mmol) and guanidine carbonate (90 mg, 0.5 mmol) in ethanol (10 mL) was heated at reflux with stirring. The solids dissolved as

reflux was achieved, then a precipitate formed within 3 h. After 19 h, the mixture was cooled to room temperature and filtered. The solid was rinsed with ethanol and dried to provide the title product (278 mg, 85%) as a white solid, mp 231-234 °C: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 10.61 (bs, 1H), 8.45 (s, 1H), 8.26 (s, 1H), 7.90 (d, 1H), 7.70 (d, 1H), 6.53 (bs, 2H), 5.25 (s, 1H), 4.69 (t, 2H), 4.33 (q, 2H), 2.83 (t, 2H), 1.35 (t, 3H); Mass spectrum (ESI) m/z 328.1 (M+H<sup>+</sup>, 98%), 350.0 (M+Na<sup>+</sup>, 100%).

H. 1-(2-(2-Amino-4-oxopyrimidin-6-yl)ethyl)-5-carboxy-indazole.

The product prepared according to Example E-19 Part G (100 mg, 305 μmol) was treated with aqueous sodium hydroxide (1.0 M; 5mL) and the resulting solution was stirred for 30 min. Hydrochloric acid (1.0 M; 10mL) was added, and the resulting suspension was stirred for 30 min. The solid was collected by filtration, rinsed with water and dried to provide the title product (88 mg, 96%) as a white solid, mp >250 °C: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 12.78 (b), 10.60 (b), 8.41 (s, 1H), 8.23 (s, 1H), 7.89 (d, 1H), 7.66 (d, 1H), 6.54 (bs, 2H), 5.27 (s, 1H), 4.68 (t, 2H), 2.82 (t, 2H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 300.1097, found 300.1085.

I. N<sup>2</sup>-(2,4,6 Trimethylbenzenesulfonyl)-L-asparagine.

L-Asparagine (20.0g, 0.15 mol) was suspended in a mixture of tetrahydrofuran (130mL) and water (250mL). Triethylamine (68mL, 0.48 mol) was added, followed by mesitylenesulfonyl chloride (49.7g, 0.23 mol) added over 20 min. The reaction mixture became slightly warmer and the solids dissolved to yield a yellow solution. The reaction mixture was stirred for 3 h at room temperature, then washed twice with ether, and twice with dichloromethane. The aqueous layer was acidified to pH 1.5 with concentrated aqueous HCl, during which time a thick precipitate formed. After being stirred for 30 min the solid was collected by filtration, washed with water and dried to yield the title product (34.1g, 72%) as a white solid: m.p. 193.5-195 °C; <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ



12.58 (bs, 1H), 7.82 (d, 1H), 7.32 (bs, 1H), 6.99 (s, 2H), 6.88 (bs, 1H), 3.98 (m, 1H), 2.55 (s, 6H), 2.45 (dd, 1H), 2.28 (dd, 1H), 2.24 (s, 3H); Mass spectrum (ESI)  $m/z$  315.2, (100%,  $M+H^+$ ).

5

J. 3-Amino-2-(S)-(2,4,6-trimethylbenzenesulfonylamino)-propionic acid. Sodium hydroxide (32g, 0.80 mol), was

dissolved in water (200mL) and cooled in an ice bath.

Bromine (6.2mL, 0.12 mol) was added dropwise over 5 min and

10 the mixture was allowed to stir for 15 min. The product prepared according to Example E-19 Part I (31.44g, 0.10 mol) was added in several portions over a period of ca. 10 min, during which time the yellow color faded. After stirring for 15 min more, the mixture was heated rapidly to an internal  
15 temperature of ca. 85 °C. After 1 h, the mixture was allowed to cool to room temperature, then cooled in an ice bath. The mixture was cautiously acidified to pH 6 with concentrated hydrochloric acid, during which time a solid formed and gas was evolved. The solid was collected by filtration, washed  
20 with cold water, and dried to provide the title product (23.9g, 83%) as a white solid:  $^1H$  NMR (DMSO- $d_6$ )  $\delta$  7.06 (s, 2H), 3.07 (dd, 1H), 3.35 (b), 2.94 (dd, 1H), 2.80 (dd, 1H), 2.59 (s, 6H), 2.26 (s, 3H); Mass spectrum (ESI)  $m/z$  287.2 (100%,  $M+H^+$ ).

25

K. tert-Butyl 3-amino-2-(S)-(2,4,6-trimethylbenzene-sulfonylamino)propionate. The product prepared

according to Example E-19 Part J (11.45g, 0.04 mol) was

placed in a pressure bottle and dissolved in dioxane

30 (170mL). Concentrated sulfuric acid (11mL) was added and the reaction mixture was cooled in a dry ice-acetone bath. Liquid isobutylene (ca. 185mL) was added, and the bottle was sealed and agitated for 114 h. The bottle was de-pressurized, then purged with  
35 nitrogen for a brief time. The reaction mixture was poured into a rapidly stirred mixture of water (225mL) containing sodium hydroxide (17g) and ether (600mL) which had been pre-cooled in an ice bath. The layers

were separated, and the aqueous layer was extracted with additional ether. The organic extracts were discarded. The pH of the aqueous layer was carefully adjusted with concentrated aqueous HCl to pH 11.0 and extracted four times with ether. The organic layers from the pH 11 extraction were combined, dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated to yield the title product (8.64g, 63%) as a viscous oil which gradually solidified: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 6.95 (s, 2H), 3.69 (m, 1H), 2.93 (m, 2H), 2.67 (s, 6H), 2.28 (s, 3H), 1.28 (s, 9H); Mass spectrum (ESI) m/z 343.3 (100%, M+H<sup>+</sup>).

L. 3-[1-[2-(2-Amino-4-oxopyrimidin-6-yl)ethyl]indazol-5-ylcarbonylamino]-2(S)-(2,4,6-trimethylbenzenesulfonyl-amino)propionic acid. A mixture of the product prepared according to Example E-19 Part H (92 mg, 300 μmol), the product prepared according to Example E-19 Part K (102 mg, 300 μmol) and 4-methylmorpholine (3 drops) in N,N-dimethylformamide (5mL) was treated with BOP reagent (160 mg, 360 μmol). The mixture was stirred for 18 h at room temperature, then was concentrated. The residue was purified by flash chromatography (dichloromethane-methanol 95:5, then 85:15) to provide the tert-butyl ester of the title product as a white solid (20 mg, 43%) which contained impurities but was used without further purification: Mass spectrum (NH<sub>3</sub>-CI) m/z 428.2 (100%, M+H<sup>+</sup>). This material was stirred in a mixture of dichloromethane (2mL) and trifluoroacetic acid (1mL) for 3 h. The mixture was concentrated and the residue was subjected to preparative HPLC to provide the title product as a white solid: <sup>1</sup>H NMR (MeOH-d<sub>4</sub>) δ 8.18 (s, 1H), 8.13 (s, 1H), 7.82 (d, 1H), 7.65 (d, 1H), 6.78 (s, 2H), 5.63 (s, 1H), 4.78 (t, 2H), 4.13 (dd, 1H), 3.74 (dd, 1H), 3.47 (dd, 1H), 3.10 (t, 2H), 2.58 (s, 6H), 2.03 (s, 3H); High resolution mass spectrum (FAB) calculated (M+H<sup>+</sup>) 568.1978, found 568.1997. This material was dissolved in water (2mL) and acetonitrile (1mL), and treated with aqueous sodium hydroxide (1.0 M; 128 μL, 128 μmol). The solution was frozen at -78 °C and lyophilized to

provide the sodium salt of the title product (60 mg, 80%) as a fluffy white powder.

Example E-24

5    3-[1-[2-Amino-4-oxopyrimidin-6-ylmethyl]indazol-5-yl-carboxylamino]-2(S)-(1-naphthalenesulfonylamino)-propionic acid

A. 1-Methoxycarbonylmethyl-5-ethoxycarbonylindazole. A  
10    solution of the product prepared according to Example E-19 Part C (5.71g, 30 mmol) in tetrahydrofuran (100 mL) was treated with sodium bis(trimethylsilyl)-amide (1.0 M in tetrahydrofuran; 33mL, 33 mmol) to give an orange solution. Methyl bromoacetate (3.2mL, 33 mmol) was added, causing a  
15    mild exotherm and a lightening of the color. After 20 min, the solution was heated to reflux. After 1 h, additional methyl bromoacetate (2.0mL) was added, and heating was continued for 19 h. Thin-layer chromatography suggested residual starting material, so additional sodium  
20    bis(trimethylsilyl)amide (20mL, 20 mmol) was added, causing the residual color to disappear. After heating for 1 h more, the solution was cooled, diluted with hydrochloric acid (1.0 M) and extracted with ethyl acetate. The extracts were dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The  
25    residual gum was purified by flash chromatography (toluene-ethyl acetate, 8:2) to provide the title product (3.13g, 40%) as a waxy white solid, which could be recrystallized (hexanes/1-chlorobutane) to give white crystals, mp 94-95 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.54 (s, 1H), 8.16 (s, 1H), 8.12 (d, 30    1H), 7.35 (d, 1H), 5.19 (s, 2H), 4.42 (q, 2H), 3.76 (s, 3H), 1.43 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 262.0954, found 262.0938.

B. 1-Carboxymethyl-5-ethoxycarbonylindazole. A solution of  
35    the product prepared according to Example E-24 Part A (2.84g, 10.8 mmol) in tetrahydrofuran (20mL) was treated with a solution of lithium hydroxide monohydrate (0.91g, 21.6 mmol) in water (20mL). The mixture was initially two

liquid phases, and gradually became a thick slurry. After 15 min, hydrochloric acid (1.0 M, 30mL) was added and the tetrahydrofuran removed under vacuum. The resulting precipitate was collected by filtration, washed with water and dried to provide the title product (2.045g, 76%) as a white solid:  $^1\text{H}$  NMR (DMSO- $d_6$ )  $\delta$  13.17 (bs, 1H), 8.50 (s, 1H), 8.30 (s, 1H), 7.96 (d, 1H), 7.75 (d, 1H), 5.33 (s, 2H), 4.34 (q, 2H), 1.34 (t, 3H); High resolution mass spectrum ( $\text{NH}_3$ -CI) calculated ( $\text{M}+\text{H}^+$ ) 249.0875, found 249.0865.

10 C. 1-(N-Methyl-N-methoxyamino)carbonylmethyl-5-

ethoxycarbonylindazole. A solution of the product prepared according to Example E-24 Part B (1.8g, 7.25 mmol), N,O-dimethylhydroxylamine hydrochloride (849 mg, 8.7 mmol) and 15 triethylamine (2.53mL, 18.1 mmol) in N,N-dimethylformamide (30mL) was treated with BOP reagent (3.85g, 8.7 mmol) and stirred at room temperature for 20 h. Most of the solvent was removed, and the residue was taken up in water. The mixture was extracted three times with ethyl acetate, and 20 the combined organic phases were washed with hydrochloric acid (1.0 M) and water, then were dried ( $\text{Na}_2\text{SO}_4$ ), filtered and concentrated. The residue was purified by flash chromatography (ethyl acetate-toluene 2:1) to provide the title product (1.85g, 88%) as a white solid:  $^1\text{H}$  NMR (DMSO- $d_6$ ) 25  $\delta$  8.48 (s, 1H), 8.28 (s, 1H), 7.94 (d, 1H), 7.72 (d, 1H), 5.52 (s, 2H), 4.34 (q, 2H), 3.82 (s, 3H), 3.15 (s, 3H), 1.36 (t, 3H); High resolution mass spectrum ( $\text{NH}_3$ -CI) calculated ( $\text{M}+\text{H}^+$ ) 292.1297, found 292.1279.

30 D. 1-(3-Ethoxycarbonyl-2-oxopropyl)-5-ethoxycarbonyl-

indazole. A solution of lithium bis(trimethylsilyl)-amide (1.0 M in hexane; 8.7mL, 8.7 mmol) in tetrahydrofuran (9mL) was cooled to  $-78^\circ\text{C}$  and treated dropwise with a solution of ethyl acetate (0.85mL, 8.7 mmol) in tetrahydrofuran (2mL) 35 over 10 min. The resulting solution was stirred for 15 min more, then was treated over 2 min with a solution of the product prepared according to Example E-24 Part C (1.69g, 5.80 mmol) in tetrahydrofuran (8mL). A bright yellow color

resulted. The solution was stirred at -78 °C for 3.5 h, then the cooling bath was removed. After 45 min, the mixture was poured into hydrochloric acid (1.0 M). The mixture was extracted three times with ethyl acetate, and the combined organic phases were dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residue was purified by flash chromatography (hexanes-ethyl acetate, 6:4) to provide the title product (636 mg, 34%) as a white solid which appeared to be a mixture (about 8:2) of keto and enol forms: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 12.13 (s, 0.2 H), 8.54 (s, 1H), 8.18 (s, 0.8 H), 8.15 (s, 0.2 H), 8.11 (d, 1H), 7.43 (d, 0.2 H), 7.35 (d, 0.8 H), 5.33 (s, 1.6 H), 5.13 (s, 0.4 H), 4.65 (s, 0.2 H), 4.41 (q, 2H), 4.15 (q, 0.4 H), 4.11 (q, 1.6 H), 3.44 (s, 1.6 H), 1.42 (t, 3H), 1.22 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 319.1294, found 319.1303.

E. 1-(2-Amino-4-oxopyrimidin-6-ylmethyl)-5-ethoxy-carbonylindazole. Using the procedure of Example E-19 Part G, the product prepared according to Example E-24 Part D (318 mg, 1.0 mmol) was converted to the title product (258 mg, 82%) as a white solid: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.52 (s, 1H), 8.33 (s, 1H), 7.96 (d, 1H), 7.74 (d, 1H), 5.32 (s, 2H), 4.78 (s, 1H), 4.33 (q, 2H), 1.35 (t, 3H); Mass spectrum (ESI) m/z 314.2 (M+H<sup>+</sup>, 100%).

F. 1-(2-Amino-4-oxopyrimidin-6-ylmethyl)-5-carboxy-indazole. Using the procedure of Example E-19 Part H, the product prepared according to Example E-24 Part E (100 mg, 319 μmol) was converted to the title product (84 mg, 92%) as a white solid: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.48 (s, 1H), 8.31 (s, 1H), 7.95 (d, 1H), 7.73 (d, 1H), 6.92 (bs), 5.37 (s, 2H), 4.87 (s, 1H).

G. Methyl 3-(tert-butyloxycarbonylamino)-2-(S)-(1-naphthalenesulfonylamino)propionate. A solution of methyl 3-(tert-butyloxycarbonylamino)-2-(S)-amino-propionate hydrochloride (7.64g, 30 mmol) and diisopropylethylamine (7.76g, 60 mmol) in dichloromethane (100mL) was cooled on

ice and treated slowly with 1-naphthalenesulfonyl chloride (6.80g, 30 mmol). The resulting mixture was warmed to room temperature and stirred for 18 h. Water was added and the layers were separated. The aqueous phase was extracted with dichloromethane, and the combined organic phases were washed with brine, dried (MgSO<sub>4</sub>), filtered and concentrated. The residue was purified by flash chromatography (hexanes-ethyl acetate, 5:1, then 3:1, then 2:1, then 3:2) to provide the title product (11.0 g, 90%) as a white solid: <sup>1</sup>H NMR (CDCl<sub>3</sub>) d 8.65 (d, 1H), 8.24 (d, 1H), 8.09 (d, 1H), 7.96 (d, 1H), 7.72 (t, 1H), 7.62 (t, 1H), 7.54 (t, 1H), 5.88 (bd, 1H), 4.78 (bt, 1H), 3.97 (m, 1H), 3.40 (m, 1H), 3.35 (s, 3H), 1.39 (s, 9H).

15 H. Methyl 3-amino-2-(S)-(1-naphthalenesulfonylamino)-propionate hydrochloride. The product prepared according to the procedure of Example E-24 Part G (11.0 g, 26.9 mmol) was dissolved in a dioxane solution of hydrogen chloride (4.0 M; 50mL). The mixture was stirred at room temperature for 18 h, and the resulting slurry was diluted with ether. The precipitate was collected by filtration, washed with ether and dried to provide the title product (10.6g) as a white solid: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) d 8.90 (d, 1H), 8.57 (d, 1H), 8.23 (d, 1H), 8.15 (bs, 3H), 8.09 (t, 1H), 7.66 (m, 3H), 4.16 (bq, 1H), 3.34 (s, 3H), 3.01 (b, 1H), 2.90 (b, 1H).

I. Methyl 3-[1-[2-amino-4-oxopyrimidin-6-ylmethyl]-indazol-5-yl-carboxylaminol-2(S)-(1-naphthalenesulfonylamino)propionate. A mixture of the product prepared according to Example E-24 Part F (85 mg, 298 μmol) and the product prepared according to Example E-24 Part H (113 mg, 328 μmol) in N,N-dimethylformamide (3mL) was treated sequentially with triethylamine (52 μL, 373 μmol), 1-hydroxybenzotriazole hydrate (40 mg, 298 μmol) and dicyclohexylcarbodiimide (68 mg, 328 μmol). The mixture was stirred at room temperature for 24 h and concentrated. The residue was purified by flash chromatography (dichloromethane-methanol, 97:3 then 9:1) to provide the

title product (154 mg, 89%) as a gum:  $^1\text{H}$  NMR ( $\text{MeOH}-d_4$ )  $\delta$  8.64 (d, 1H), 8.15 (s, 2H), 7.92 (d, 1H), 7.89 (s, 1H), 7.71 (d, 1H), 7.6-7.3 (4H), 5.35 (s, 2H), 5.03 (s, 1H), 4.20 (dd, 1H), 3.64 (dd, 1H), 3.46 (dd, 1H); ester methyl signal obscured by residual MeOH signal.

J. 3-[1-[2-Amino-4-oxopyrimidin-6-ylmethyl]-indazol-5-ylcarbonylamino]-2(S)-(1-naphthalenesulfonylamino)-propionic acid. The product prepared according to Example E-24 Part I (154 mg, 267  $\mu\text{mol}$ ) was dissolved in formic acid (4mL) and treated with concentrated hydrochloric acid (2mL). The solution was stirred at room temperature for 67 h, then was concentrated. The residue was purified by preparative HPLC to provide the title product (83 mg, 55%) as a white solid:  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ )  $\delta$  8.63 (d, 1H), 8.58 (d, 1H), 8.32 (bt, 1H), 8.25 (s, 1H), 8.12 (d, 1H), 8.07 (d, 1H), 7.98 (s, 1H), 7.87 (d, 1H), 7.7-7.4 (5H), 6.80 (b, 2H), 5.35 (s, 2H), 4.81 (s, 1H), 4.07 (m, 1H), 3.52 (m, 1H), 3.34 (m, 1H); High resolution mass spectrum (FAB) calculated ( $\text{M}+\text{H}^+$ ) 562.1509, found 562.1516. This material (51 mg, 90.8  $\mu\text{mol}$ ) was dissolved in water (2mL) and acetonitrile (1mL) and treated with aqueous sodium hydroxide (1.0 M; 100  $\mu\text{L}$ , 100  $\mu\text{mol}$ ). After stirring overnight, the solution was diluted with water, frozen at  $-78^\circ\text{C}$  and lyophilized to provide the sodium salt of the title product (5 mg, 96%) as a fluffy white solid.

#### Example E-42

3-[1-[2-(2-4-Diaminopyrimidin-6-yl)ethyl]indazol-5-yl-carbonylamino]-2(S)-benzenesulfonylamino propionic acid

A. 1-(2-(2-Amino-4-chloropyrimidin-6-yl)ethyl)-5-ethoxycarbonylindazole. A mixture of the product prepared according to Example E-19 Part G (840 mg, 2.57 mmol) and phosphorus oxychloride (18mL) was heated to reflux and stirred for 70 min. The solvent was allowed to distil off, and the residue was dried under vacuum. This material was triturated in water and aqueous ammonia (2mL), and the

resulting solid was collected by filtration, washed with water and dried to provide the title product (725 mg, 82%) as a cream-colored solid:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ )  $\delta$  8.49 (s, 1H), 8.10 (s, 1H), 8.03 (d, 1H), 7.38 (d, 1H), 6.36 (s, 1H), 5.10 (b, 2H), 4.78 (t, 2H), 4.40 (q, 2H), 3.20 (t, 2H), 1.43 (t, 3H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 346.1071, found 346.1077.

10 B. 1-(2-(2,4-Diaminopyrimidin-6-yl)ethyl)-5-ethoxy-carbonylindazole. A mixture of the product prepared according to Example E-42 Part A (350 mg, 1.02 mmol) and ethanol saturated with ammonia gas (20mL) was heated in a sealed tube for 44 h, starting at 100 °C and increasing to 155 °C. The mixture was then concentrated. The residue was  
15 purified by flash chromatography (dichloromethane-methanol 9:1) to provide the title product (157 mg, 47%) as a solid:  $^1\text{H}$  NMR ( $\text{DMSO-d}_6$ )  $\delta$  8.44 (s, 1H), 8.25 (s, 1H), 7.89 (d, 1H), 7.68 (d, 1H), 6.12 (bs, 2H), 5.87 (bs, 2H), 5.44 (s, 1H), 4.70 (t, 2H), 4.32 (q, 2H), 2.84 (t, 2H), 1.34 (t, 3H);  
20 High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 327.1569, found 327.1589.

C. 1-(2-(2,4-Diaminopyrimidin-6-yl)ethyl)-5-carboxy-indazole. A mixture of the product prepared according to  
25 Example E-42 Part B (157 mg, 480  $\mu\text{mol}$ ) and aqueous sodium hydroxide (1.0 M; 5mL) was heated at reflux for 4 h. The solution was cooled to room temperature and treated with hydrochloric acid (1.0 M; 10mL). The resulting solution was concentrated and the residue, containing sodium chloride,  
30 was used without further purification or characterization.

D. Methyl 3-amino-2-(S)-benzenesulfonylaminopropionate hydrochloride. Using procedures analogous to those outlined in Example E-24 Parts G and H, methyl 3-(tert-butylloxycarbonylamino)-2-(S)-aminopropionate hydrochloride  
35 (5.82g, 26.6 mmol) was converted to the title product (7.5g, 95% for two steps) as a white solid:  $^1\text{H}$  NMR ( $\text{DMSO-d}_6$ )  $\delta$  8.70



(d, 1H), 8.38 (bs, 3H), 7.78 (m, 2H), 7.60 (m, 3H), 4.25 (dd, 1H), 3.03 (dd, 1H), 2.89 (dd, 1H).

E. Methyl 3-[1-[2-(2-4-diaminopyrimidin-6-yl)ethyl]-indazol-

5 5-ylcarbonylamino]-2(S)-benzenesulfonylamino-propionate. A mixture of the crude product prepared according to Example E-42 Part C (80 mg, 234  $\mu$ mol), the product prepared according to Example E-42 Part D (90 mg, 304  $\mu$ mol) and 4-methylmorpholine (3 drops) in N,N-dimethylformamide (5mL)  
10 was treated with BOP reagent (134 mg, 304  $\mu$ mol) and stirred for 18 hr. The solution was diluted with water and extracted with dichloromethane. The organic phase was dried (MgSO<sub>4</sub>), filtered and concentrated. The residue was purified by flash chromatography (dichloromethane-methanol  
15 9:1, then 85:15) to provide the title product (80 mg, 66%) as a white solid: <sup>1</sup>H NMR (MeOH-d<sub>4</sub>)  $\delta$  8.11 (s, 1H), 8.10 (s, 1H), 7.78 (m, 2H), 7.70 (d, 1H), 7.48 (d, 1H), 7.40 (m, 3H), 5.47 (s, 1H), 4.71 (t, 2H), 4.23 (dd, 1H), 3.66 (dd, 1H), 3.53 (dd, 1H), 3.46 (s, 3H), 2.93 (t, 2H); Mass spectrum  
20 (NH<sub>3</sub>-CI) m/z 540.1 (100%, M+H<sup>+</sup>).

F. 3-[1-[2-(2-4-Diaminopyrimidin-6-yl)ethyl]-indazol-5-ylcarbonylamino]-2(S)-benzenesulfonylamino-propionic acid.

The product prepared according to Example E-42 Part E (30  
25 mg, 60  $\mu$ mol) was dissolved in a mixture of formic acid (1mL) and concentrated hydrochloric acid (0.5mL) and stirred for 48 h. The solution was concentrated and purified by preparative HPLC to provide the title product as the trifluoroacetate salt (20 mg, 52%) as a white solid: <sup>1</sup>H NMR  
30 (MeOH-d<sub>4</sub>)  $\delta$  8.19 (s, 1H), 8.15 (s, 1H), 7.82 (m, 3H), 7.58 (d, 1H), 7.40 (m, 3H), 5.65 (s, 1H), 4.78 (t, 2H), 4.20 (dd, 1H), 3.77 (dd, 1H), 3.49 (dd, 1H), 3.12 (t, 2H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>)  
525.1669, found 525.1680.

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Example E-43

3-[1-[2-(2,3-Dihydro-5-oxo-imidazo[1,2-a]pyrimidin-7-yl)ethyl]indazol-5-yl]carbonylamino]-2(S)-(1-naphthalenesulfonyl)aminopropionic acid

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A. 1-(2-(2,3-Dihydro-5-oxo-imidazo[1,2-a]pyrimidin-7-yl)ethyl)-5-ethoxycarbonylindazole. A mixture of the product prepared according to Example E-19 Part F (540 mg, 1.63 mmol), 2-amino-4,5-dihydroimidazole hydrobromide (297 mg, 1.79 mmol) and sodium bicarbonate (150 mg, 1.79 mmol) in ethanol (20mL) was heated at reflux for 17 h. The mixture was cooled, and the precipitate was isolated by filtration, rinsed with ethanol, and dried to provide the title product (423 mg, 73%) as an off-white solid: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.45 (s, 1H), 8.26 (s, 1H), 7.97 (s, 1H), 7.93 (d, 1H), 7.70 (d, 1H), 5.36 (s, 1H), 4.68 (t, 2H), 4.32 (q, 2H), 3.93 (t, 2H), 3.57 (t, 2H), 2.85 (t, 2H), 1.34 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 354.1566, found 354.1555. Also recovered from the filtrate was starting ketoester (29 mg, 21%).

B. 1-(2-(2,3-Dihydro-5-oxo-imidazo[1,2-a]pyrimidin-7-yl)ethyl)-5-carboxyindazole. The product prepared according to Example E-43 Part A (402 mg, 1.14 mmol) was dissolved in aqueous sodium hydroxide (12mL) and stirred at room temperature for 3 h. The mixture was acidified with hydrochloric acid (1.0 M, 13.5mL) and the resulting solid was collected by filtration, washed with water, and dried to provide the title product (250 mg, 68%) as an off-white solid: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.42 (s, 1H), 8.23 (s, 1H), 7.99 (bs, 1H), 7.92 (d, 1H), 7.67 (d, 1H), 5.37 (s, 1H), 4.68 (t, 2H), 3.93 (t, 2H), 3.58 (t, 2H), 2.85 (t, 2H).

C. Methyl 3-[1-[2-(2,3-dihydro-5-oxo-imidazo[1,2-a]pyrimidin-7-yl)ethyl]indazol-5-yl]carbonylamino]-2(S)-(1-naphthalenesulfonyl)aminopropionate. A mixture of the product prepared according to Example E-43 Part B (50 mg, 154 μmol) and the product prepared according to Example E-24

Part H (67 mg, 185  $\mu$ mol) was dissolved in N,N-dimethylformamide (3mL). The solution was treated sequentially with triethylamine (67  $\mu$ L, 462  $\mu$ mol), 1-hydroxybenzotriazole hydrate (22 mg, 154  $\mu$ mol) and  
5 dicyclohexylcarbodiimide (44 mg, 200  $\mu$ mol). The resulting mixture was stirred at room temperature for 22 h. The solvent was removed and the residue was purified by flash chromatography (dichloromethane, gradually changing to dichloromethane-methanol-aqueous ammonia 93:7:0.7) to  
10 provide the title product (60 mg, 63%) as a solid:  $^1\text{H}$  NMR (MeOH- $d_4$ )  $\delta$  8.64 (d, 1H), 8.16 (d, 1H), 8.04 (s, 1H), 7.91 (d, 1H), 7.81 (s, 1H), 7.70 (d, 1H), 7.58 (m, 2H), 7.42 (m, 4H), 5.32 (s, 1H), 4.71 (t, 2H), 4.19 (dd, 1H), 3.97 (t, 2H), 3.64 (m, 3H), 3.45 (dd, 1H), 3.25 (s, 3H), 2.93 (t, 2H); Mass spectrum (FAB)  $m/z$  616.2 (100%,  $\text{M}+\text{H}^+$ ).

D. 3-[1-[2-(2,3-Dihydro-5-oxo-imidazo[1,2-a]pyrimidin-7-yl)ethyl]-indazol-5-yl]carbonylaminol-2(S)-(1-naphthalenesulfonyl)aminopropionic acid. The product  
20 prepared according to Example E-43 Part C. (36 mg, 58  $\mu$ mol) was dissolved in tetrahydrofuran (3mL) and treated with lithium hydroxide monohydrate (18 mg) dissolved in water (1mL). The mixture was stirred for 2 h, concentrated, and purified by preparative HPLC to provide the title product  
25 (17.3 mg) as a white solid:  $^1\text{H}$  NMR (MeOH- $d_4$ )  $\delta$  8.64 (d, 1H), 8.16 (d, 1H), 8.06 (s, 1H), 7.87 (d, 1H), 7.76 (s, 1H), 7.64 (d, 1H), 7.6-7.3 (5H), 5.47 (s, 1H), 4.75 (t, 2H), 4.19 (dd, 1H), 4.05 (t, 2H), 3.77 (t, 2H), 3.69 (dd, 1H), 3.43 (dd, 1H), 3.01 (t, 2H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ )  
30 calculated ( $\text{M}+\text{H}^+$ ) 602.1822, found 602.1818. This material was dissolved in water (1mL) and acetonitrile (1mL), and treated with sodium hydroxide (1.0 M; 28  $\mu$ L, 28  $\mu$ mol). The solution was frozen at -78  $^\circ\text{C}$  and lyophilized to provide the sodium salt of the title product (19.6 mg, 34%) as a white  
35 solid.

Example E-483-[1-[2-(5-Oxo-imidazo[1,2-alpyrimidin-7-yl)ethyl]-indazol-5-yl]carbonylamino]-2(S)-benzenesulfonylamino-propionic acid

- 5 A. 1-(2-(5-Oxo-imidazo[1,2-alpyrimidin-7-yl)ethyl]-5-ethoxycarbonylindazole. A mixture of the product prepared according to Example E-19 Part F (665 mg, 2.0 mmol), 2-aminoimidazole sulfate (291 mg, 2.2 mmol) and ammonium acetate (340 mg, 4.4 mmol) was heated on an oil bath at 150  
10 °C. After 2 h, the mixture was cooled and triturated in ethanol. The resulting solid was collected by filtration, washed with ethanol and dried to provide the title product (459 mg, 65%) as a gray-tan powder: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 12.7 (bs, 1H), 8.44 (s, 1H), 8.25 (s, 1H), 7.88 (d, 1H), 7.71 (d,  
15 1H), 7.52 (s, 1H), 7.47 (s, 1H), 5.69 (s, 1H), 4.80 (t, 2H), 4.32 (q, 2H), 3.10 (t, 2H), 1.33 (t, 3H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 351.1331, found 351.1325.
- 20 B. 1-(2-(5-Oxo-imidazo[1,2-alpyrimidin-7-yl)ethyl]-5-carboxyindazole. The product prepared according to Example E-48 Part A (43.7 mg, 124 μmol) was stirred in aqueous sodium hydroxide (1.0 M, 2mL), during which time the solid slowly dissolved. After 45 min, the solution was treated  
25 with hydrochloric acid (1.0 M, 3 mL) to form a dense precipitate. The solid was collected by filtration, washed with water and ethanol, and dried to provide the title product (33 mg, 82%) as a white solid: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 12.76 (bs, 2H), 8.40 (s, 1H), 8.23 (s, 1H), 7.87 (d, 1H),  
30 7.68 (d, 1H), 7.51 (d, 1H), 7.45 (d, 1H), 5.64 (s, 1H), 4.79 (t, 2H), 3.09 (t, 2H); Mass spectrum (ESI) m/z 321.7 (100%, M+H<sup>+</sup>).
- 35 C. Methyl 3-[1-[2-(5-oxo-imidazo[1,2-alpyrimidin-7-yl)-ethyl]indazol-5-yl]carbonylamino]-2(S)-benzenesulfonylaminopropionate. Using the procedure of Example E-43 Part C, the product prepared according to Example E-48 Part B (61 mg, 188 μmol) and the product prepared according to Example

E-42 Part D (67 mg, 227  $\mu$ mol) were converted to the title product (96 mg, 90%) as a solid:  $^1\text{H}$  NMR (MeOH- $d_4$ )  $\delta$  8.07 (s, 2H), 7.77 (m, 2H), 7.61 (d, 1H), 7.46 (d, 1H), 7.36 (m, 2H), 7.26 (m, 1H), 5.54 (s, 1H), 4.80 (t, 2H), 4.22 (dd, 1H), 3.65 (dd, 1H), 3.52 (dd, 1H), 3.45 (s, 3H), 3.14 (t, 2H); Mass spectrum (ESI)  $m/z$  561.8 (100%,  $M+H^+$ ).

D. 3-[1-[2-(5-Oxo-imidazo[1,2-a]pyrimidin-7-yl)ethyl]-indazol-5-ylcarbonylamino]-2(S)-benzenesulfonylamino-propionic acid. The product prepared according to Example E-48 Part C (95 mg, 169  $\mu$ mol) was dissolved in tetrahydrofuran (4mL) and water (1.5mL) and treated with lithium hydroxide monohydrate (30 mg, 715  $\mu$ mol). After stirring for 46 h at room temperature, the solution was concentrated under vacuum and the residue was purified by preparative HPLC to provide the title product (45 mg) as a white solid:  $^1\text{H}$  NMR (MeOH- $d_4$ )  $\delta$  8.10 (s, 2H), 7.78 (m, 2H), 7.69 (d, 1H), 7.52 (d, 1H), 7.35 (m, 3H), 5.71 (s, 1H), 4.84 (t, 2H), 4.20 (dd, 1H), 3.73 (dd, 1H), 3.49 (dd, 1H), 3.21 (t, 2H); High resolution mass spectrum (FAB) calculated ( $M+H^+$ ) 550.1509, found 550.1508.

#### Example F-26

25 3-[1-Methyl-3-[2-(2-amino-4-oxopyrimidin-6-yl)ethyl]-indazol-6-ylcarbonylamino]-2(S)-(isquinoline-5-sulfonylamino)propionic acid

A. 6-Methoxycarbonylindazole. A solution of methyl 3-amino-4-methylbenzoate (12.39g, 75 mmol) in water (85 mL) and concentrated hydrochloric acid (15mL) was treated with ammonium fluoborate (10.48g, 100 mmol) and cooled to  $-3^\circ\text{C}$ . A solution of sodium nitrite (5.18g, 75 mmol) in water (12mL) was added dropwise over 25 min, producing a thick slurry. After stirring for 35 min more, the solid was collected by filtration, and was washed with water (100mL), methanol (50mL) and ether (50mL), and dried. This material was added to a stirred mixture of potassium acetate (8.1g,

82.5 mmol), 18-crown-6 (0.5g, 1.9 mmol) and chloroform (170mL) at room temperature, and stirring was continued for 70 min. Water (170mL) was added and stirring was continued until the solid was dissolved. The layers were separated, and the aqueous phase was extracted with chloroform. The combined organic phases were washed with water, dried (MgSO<sub>4</sub>), filtered and concentrated. The resulting solid was stirred in hexane overnight, collected by filtration, rinsed with hexane and dried to provide the title product (8.85g, 67%) as a dull yellow powder, which could be recrystallized from acetonitrile to give pale orange crystals, mp 142-144 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 11.17 (bs, 1H), 8.30 (s, 1H), 8.18 (s, 1H), 7.83 (m, 2H), 3.97 (s, 3H); Mass spectrum (NH<sub>3</sub>-CI) m/z 177 (100%, M+H<sup>+</sup>).

15 B. 3-Bromo-6-methoxycarbonylindazole. A solution of the product prepared according to Example F-26 Part A (3.52g, 20 mmol) in acetic acid (100mL) was treated with bromine (1.55mL, 30 mmol) and stirred in the dark for 18 h. The solution was poured into water (600mL) to form a dense orange slurry. Solid sodium bisulfite was added in small portions, causing the color to lighten, until no further change was observed. The slurry was then stirred for 20 min, and the solid was collected by filtration, washed thoroughly with water and dried to provide the title product (4.46g, 87%) as a light yellow powder: mp 186-189 °C; <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.24 (s, 1H), 7.91 (d, 1H), 7.70 (d, 1H), 3.92 (s, 3H); Mass spectrum (NH<sub>3</sub>-CI) m/z 255 (100%), 257 (96%) (M+H<sup>+</sup>); High resolution mass spectrum (EI) calculated (M<sup>+</sup>) 253.9691, found 253.9694.

C. 1-Methyl-3-bromo-6-methoxycarbonylindazole. Sodium hydride (60% in mineral oil; 600 mg, 15 mmol) was placed in a dry flask under nitrogen and suspended in dry N,N-dimethylformamide (20mL). The suspension was stirred on an ice bath and treated with a solution of the product prepared according to Example F-26 Part B (2.55 g, 10 mmol) in dry N,N-dimethylformamide (20mL) over about 3 min. The

resulting yellow solution was stirred for 10 min more, then was treated with iodomethane (0.7mL, 11 mmol). The mixture was stirred at room temperature for 22.5 h, then was poured into water (ca. 600mL). After being stirred for 10 min, the suspension was filtered, and the solid was washed with water and dried to provide the title product (2.57g, 95%) as a yellow solid, which could be recrystallized from ethanol, mp 122-125 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.16 (s, 1H), 7.87 (d, 1H), 7.65 (d, 1H), 4.13 (s, 3H), 3.99 (s, 3H); Mass spectrum (NH<sub>3</sub>-CI) m/z 269 (100%), 271 (92%) (M+H<sup>+</sup>); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated 268.9926, found 268.9914.

D. 1-Methyl-3-(3,3-diethoxypropynyl)-6-methoxycarbonyl-indazole. A mixture of the product prepared according to Example F-26 Part C (1.93g, 7.2 mmol), 3,3-diethoxypropyne (1.65mL, 11.5 mmol), triphenylphosphine (190 mg, 720 μmol), copper(I) iodide (68 mg, 360 μmol) and triethylamine (60mL) was purged of oxygen by bubbling with nitrogen for 25 min. Bis(triphenyl-phosphine)palladium(II) chloride (126 mg, 180 μmol) was added, and the mixture was heated at 100 °C. After 14 h, the mixture was concentrated. The residue was purified by flash chromatography (hexanes-ethyl acetate 85:15) to provide an orange, sticky solid. This was recrystallized (methanol) to provide the title product (1.26g, 56%) as light yellow fibrous needles, mp 91-93 °C: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.18 (s, 1H), 7.88 (d, 1H), 7.83 (d, 1H), 5.59 (s, 1H), 4.14 (s, 3H), 3.98 (s, 3H), 3.89 (m, 2H), 3.72 (m, 2H), 1.30 (t, 6H); Mass spectrum (ESI) m/z 317.4 (100%, M+H<sup>+</sup>).

E. 1-Methyl-3-(3,3-diethoxypropyl)-6-methoxycarbonyl-indazole. A mixture of the product prepared according to Example F-26 Part D (1.24g, 3.92 mmol), 10% palladium on charcoal (130 mg), methanol (40mL) and tetrahydrofuran (60mL) was placed in a pressure bottle and shaken under an atmosphere of hydrogen (60 psig). After 60 min, the bottle was vented and the mixture was filtered through Celite.® The solids were rinsed with methanol and tetrahydrofuran, and

the filtrate was concentrated to provide the title product (1.31g) as a slightly cloudy oil which was not purified further:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ )  $\delta$  8.11 (s, 1H), 7.77 (d, 1H), 7.72 (d, 1H), 4.57 (t, 1H), 4.08 (s, 3H), 3.97 (s, 3H), 3.69 (m, 2H), 3.52 (m, 2H), 3.06 (t, 2H), 2.13 (m, 2H), 1.22 (t, 6H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 321.1814, found 321.1830.

F. 1-Methyl-3-(3-oxopropyl)-6-methoxycarbonylindazole. A mixture of the product prepared according to Example F-26 Part E (1.29g, 4.0 mmol), acetic acid (20mL) and water (30mL) was heated on an oil bath at 80 °C. After 30 min, the solvent was removed, and the residue was dissolved in ethyl acetate. The solution was washed with saturated aqueous sodium bicarbonate, dried ( $\text{MgSO}_4$ ), filtered and concentrated under vacuum to provide a light brown oil. On further drying under vacuum, a tan solid slowly formed, which was the title product (982 mg, 98%), mp 80-83 °C:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ )  $\delta$  9.92 (s, 1H), 8.11 (s, 1H), 7.79 (d, 1H), 7.71 (d, 1H), 4.07 (s, 3H), 3.98 (s, 3H), 3.31 (t, 2H), 3.03 (t, 2H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 247.1083, found 247.1077.

G. 1-Methyl-3-(2-carboxyethyl)-6-methoxycarbonyl-indazole. The product prepared according to Example F-26 Part F (1.04g, 4.22 mmol) was dissolved in N,N-dimethylformamide (10mL) and treated with pyridinium dichromate (3.19g, 8.48 mmol). The resulting dark-colored mixture was stirred at room temperature for 5 h, then was poured into water. The mixture was extracted four times with ethyl acetate. The combined organic phases were dried ( $\text{Na}_2\text{SO}_4$ ), filtered and concentrated under vacuum to provide the title product (1.06g, 96%) as a pale greenish solid:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ )  $\delta$  8.11 (s, 1H), 7.78 (d, 1H), 7.72 (d, 1H), 4.06 (s, 3H), 3.97 (s, 3H), 3.31 (t, 2H), 2.89 (t, 2H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 263.1032, found 263.1013.



- H. 1-Methyl-3-(4-ethoxycarbonyl-3-oxobutyl)-6-methoxy-carbonylindazole. Following the procedure of Example E-19 Part F, the product prepared according to the procedure of Example F-26 Part G (998 mg, 3.81 mmol) was converted to the title product (720 mg, 57%) as a light yellow solid:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ )  $\delta$  8.09 (s, 1H), 7.77 (d, 1H), 7.71 (d, 1H), 4.19 (q, 2H), 4.05 (s, 3H), 3.97 (s, 3H), 3.53 (s, 2H), 3.26 (t, 2H), 3.13 (t, 2H), 1.27 (t, 3H).
- I. 1-Methyl-3-(2-(2-amino-4-oxopyrimidin-6-yl)ethyl)-6-methoxycarbonylindazole. A suspension of the product prepared according to Example F-26 Part H (260 mg, 820  $\mu\text{mol}$ ) in ethanol (10mL) was treated with guanidine carbonate (74 mg, 410  $\mu\text{mol}$ ) and the mixture was heated to reflux for 3.5 h. The mixture was cooled to room temperature and the precipitate was isolated by filtration, washed with ethanol and dried to provide the title product (149 mg, 56%) as a white solid:  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ )  $\delta$  8.17 (s, 1H), 7.79 (d, 1H), 7.61 (d, 1H), 6.47 (bs, 2H), 5.37 (s, 1H), 4.02 (s, 3H), 3.86 (s, 3H), 3.17 (t, 2H), 2.67 (s, 3H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 328.1410, found 328.1408.
- J. 1-Methyl-3-(2-(2-amino-4-oxopyrimidin-6-yl)ethyl)-6-carboxyindazole. The product prepared according to Example F-26 Part I (139 mg, 427  $\mu\text{mol}$ ) was dissolved in aqueous sodium hydroxide (1.0 M, 6mL) and stirred at room temperature for 50 min. Hydrochloric acid (1.0 M, 6.5mL) was added and the resulting precipitate was isolated by filtration, washed with ethanol and water, and dried to provide the title product (128 mg, 96%) as a white solid:  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ )  $\delta$  8.14 (s, 1H), 7.76 (d, 1H), 7.60 (d, 1H), 6.52 (bs, 2H), 5.38 (s, 1H), 4.00 (s, 3H), 3.16 (t, 2H), 2.67 (s, 3H); High resolution mass spectrum ( $\text{NH}_3\text{-CI}$ ) calculated ( $\text{M}+\text{H}^+$ ) 314.1253, found 314.1239.
- K. Methyl 3-(tert-butyloxycarbonylamino)-2-(S)-(isoguinoline-5-sulfonylamino)propionate. A solution of

methyl 3-(tert-butyloxycarbonylamino)-2-(S)-amino-propionate hydrochloride (7.06g, 27.8 mmol) in pyridine (30mL) was treated with N,N-dimethylamino-pyridine (3.40g, 27.8 mmol) and cooled on ice. Isoquinoline-5-sulfonyl chloride (12.68g, 55.7 mmol) was added portionwise over 5 min, and the mixture was warmed to room temperature and stirred for 5 h. The solvent was removed under vacuum and the residue was partitioned between water and ethyl acetate. The organic phase was dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residue was purified by flash chromatography to provide the title product (8.93g, 79%) as a solid: <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 9.37 (s, 1H), 8.73 (d, 1H), 8.42 (d, 2H), 8.23 (d, 1H), 7.69 (t, 1H), 4.86 (bt, 1H), 4.05 (t, 1H), 3.44 (t, 2H), 3.39 (s, 3H), 1.39 (s, 9H); High resolution mass spectrum (NH<sub>3</sub>-CI) calculated (M+H<sup>+</sup>) 410.1386, found 410.1378.

L. Methyl 3-amino-2-(S)-(isoquinoline-5-sulfonylamino)-propionate bis-trifluoroacetate. A solution of the product prepared according to Example F-26 Part K (8.02 g, 19.6 mmol) in dichloromethane (85mL) was treated with trifluoroacetic acid (40mL). The solution was stirred at room temperature for 60 min, then was concentrated under vacuum to provide the title product (12.0g) as a solid, used without further purification: <sup>1</sup>H NMR (MeOH-d<sub>4</sub>) δ 9.36 (s, 1H), 8.59 (m, 2H), 8.42 (d, 2H), 8.35 (d, 1H), 7.76 (t, 1H), 3.93 (dd, 1H), 3.10 (s, 3H), 2.86 (dd, 1H), 2.74 (dd, 1H).

M. Methyl 3-[1-methyl-3-[2-(2-amino-4-oxopyrimidin-6-yl)ethyl]-indazol-6-yl]carbonylamino]-2(S)-(isoquinoline-5-sulfonylamino)propionate. Using the procedure of Example E-43 Part C, the product prepared according to Example F-26 Part J (52.3 mg, 167 μmol) and the product prepared according to Example F-26 Part L (70 mg, 226 μmol) were converted to the title product (60 mg, 60%) as a solid: <sup>1</sup>H NMR (MeOH-d<sub>4</sub>) δ 8.49 (m, 2H), 8.36 (d, 1H), 7.98 (d, 1H), 7.62 (t, 2H), 7.55 (s, 1H), 7.38 (m, 1H), 7.16 (d, 1H), 5.55 (s, 1H), 4.30 (dd, 1H), 3.97 (s, 3H), 3.67 (dd, 1H), 3.49

(dd, 1H), 3.41 (s, 3H), 2.87 (t, 2H); High resolution mass spectrum (FAB) calculated ( $M+H^+$ ) 605.1931, found 605.1916.

N. 3-[1-Methyl-3-[2-(2-amino-4-oxopyrimidin-6-yl)ethyl]-indazol-6-yl]carbonylamino]-2(S)-(isoquinoline-5-sulfonylamino)propionic acid. A solution of the product prepared according to Example F-26 Part M (57 mg, 93  $\mu$ mol) in tetrahydrofuran (4mL) and water (1.5mL) was treated with lithium hydroxide monohydrate (16 mg, 380  $\mu$ mol). The solution was stirred for 24 h, then acidified with hydrochloric acid (1.0 M) and concentrated under vacuum. The residue was purified by preparative HPLC to provide the title product as the trifluoroacetate salt (33 mg, 56%) as a light yellow solid:  $^1H$  NMR (MeOH- $d_4$ )  $\delta$  9.32 (bs, 1H), 8.92 (d, 1H), 8.66 (d, 1H), 8.62 (bm, 1H), 8.30 (d, 1H), 7.90 (t, 1H), 7.75 (d, 1H), 7.66 (s, 1H), 7.24 (d, 1H), 5.78 (s, 1H), 4.31 (dd, 1H), 4.01 (s, 3H), 3.73 (dd, 1H), 3.52 (dd, 1H), 3.36 (t, 2H), 3.04 (t, 2H); High resolution mass spectrum (FAB) calculated ( $M+H^+$ ) 591.1774, found 591.1764.

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Using the methods described above and modifications thereof known to one skilled in the art of organic synthesis, additional compounds of the present invention can be prepared, including, but not limited to the representative compounds listed in the Tables below.

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#### Utility

The compounds of Formula (IA) of the present invention possess activity as antagonists of integrins such as, for example, the  $\alpha_v\beta_3$  or vitronectin receptor,  $\alpha_v\beta_5$  or  $\alpha_5\beta_1$ , and as such have utility in the treatment and diagnosis of cell adhesion, angiogenic disorders, inflammation, bone degradation, cancer metastases, diabetic retinopathy, thrombosis, restenosis, macular degeneration, and other conditions mediated by cell adhesion and/or cell migration and/or angiogenesis. The integrin antagonist activity of the compounds of the present invention is demonstrated using

35

assays which measure the binding of a specific integrin to a native ligand, for example, using the ELISA assay described below for the binding of vitronectin to the  $\alpha_v\beta_3$  receptor.

5 The compounds of the present invention possess selectivity for the  $\alpha_v\beta_3$  receptor relative to the GPIIb/IIIa receptor as demonstrated by their lack of activity in standard assays of platelet aggregation, such as the platelet aggregation assay described below.

10 One of the major roles of integrins *in vivo* is to mediate cellular interactions with adjacent cells. Cell based adhesion assays can be used to mimic these interactions *in vitro*. A cell based assay is more representative of the *in vivo* situation than an ELISA since the receptor is maintained in membranes in the native state.  
15 The compounds of the present invention have activity in cell-based assays of adhesion, for example as demonstrated in using the cell adhesion assays described below.

The compounds of Formula (IA) of the present invention  
20 may be useful for the treatment or prevention of other diseases which involve cell adhesion processes, including, but not limited to, osteoporosis, rheumatoid arthritis, autoimmune disorders, bone degradation, rheumatoid arthritis, asthma, allergies, adult respiratory distress  
25 syndrome, graft versus host disease, organ transplantation, septic shock, psoriasis, eczema, contact dermatitis, osteoarthritis, atherosclerosis, metastasis, wound healing, inflammatory bowel disease and other angiogenic disorders.

The compounds of Formula (IA) have the ability to  
30 suppress/inhibit angiogenesis *in vivo*, for example, as demonstrated using animal models of ocular neovascularization.

The compounds provided by this invention are also useful as standards and reagents in determining the ability  
35 of a potential pharmaceutical to inhibit integrin-ligand binding. These may be provided in a commercial kit comprising a compound of this invention.

As used herein "µg" denotes microgram, "mg" denotes milligram, "g" denotes gram, "µL" denotes microliter, "mL" denotes milliliter, "L" denotes liter, "nM" denotes nanomolar, "µM" denotes micromolar, "mM" denotes millimolar, "M" denotes molar and "nm" denotes nanometer. "Sigma" stands for the Sigma-Aldrich Corp. of St. Louis, MO.

The utility of the compounds of the present invention may be assessed by testing in one or more of the following assays as described in detail below: Purified  $\alpha_v\beta_3$  (human placenta) - Vitronectin ELISA,  $\alpha_v\beta_3$ -Vitronectin Binding Assay, Human Aortic Smooth Muscle Cell Migration Assay, In Vivo Angiogenesis Model, Pig Restenosis Model, Mouse Retinopathy Model. A compound of the present invention is considered to be active if it has an  $IC_{50}$  or  $K_i$  value of less than about 10 µM for the inhibition of  $\alpha_v\beta_3$ -Vitronectin Binding Assay, with compounds preferably having  $K_i$  values of less than about 0.1 µM. Tested compounds of the present invention are active in the  $\alpha_v\beta_3$ -Vitronectin Binding Assay as well as in cell-based assays of integrin adhesion mediated by the  $\alpha_v\beta_3$ -receptor.

Purified  $\alpha_v\beta_3$  (human placenta) - Vitronectin ELISA

The  $\alpha_v\beta_3$  receptor was isolated from human placental extracts prepared using octylglucoside. The extracts were passed over an affinity column composed of anti- $\alpha_v\beta_3$  monoclonal antibody (LM609) to Affigel. The column was subsequently washed extensively at pH 7 and pH 4.5 followed by elution at pH 3. The resulting sample was concentrated by wheat germ agglutinin chromatography to provide two bands on SDS gel which were confirmed as  $\alpha_v\beta_3$  by western blotting.

Affinity purified protein was diluted at different levels and plated to 96 well plates. ELISA was performed using fixed concentration of biotinylated vitronectin (approximately 80 nM/well). This receptor preparation contains the  $\alpha_v\beta_3$  with no detectable levels of  $\alpha_v\beta_5$  according

to the gel ( $\alpha_v\beta_3$ ) and according to effects of blocking antibodies for the  $\alpha_v\beta_3$  or  $\alpha_v\beta_5$  in the ELISA.

A submaximal concentration of biotinylated vitronectin was selected based on conc. response curve with fixed  
5 receptor conc. and variable concentrations of biotinylated vitronectin.

#### $\alpha_v\beta_3$ -Vitronectin Binding Assay

The purified receptor is diluted with coating buffer  
10 (20 mM Tris HCl, 150 mM NaCl, 2.0 mM  $\text{CaCl}_2$ , 1.0 mM  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ , 1.0 mM  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$ ) and coated (100  $\mu\text{L}$ /well) on Costar (3590) high capacity binding plates overnight at 4°C. The coating solution is discarded and the plates washed once with blocking/binding buffer (B/B buffer, 50 mM  
15 Tris HCl, 100 mM NaCl, 2.0 mM  $\text{CaCl}_2$ , 1.0 mM  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ , 1.0 mM  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$ ). Receptor is then blocked (200  $\mu\text{L}$ /well) with 3.5% BSA in B/B buffer for 2 hours at room temperature. After washing once with 1.0% BSA in B/B buffer, biotinylated vitronectin (100  $\mu\text{L}$ ) and either inhibitor (11  
20  $\mu\text{L}$ ) or B/B buffer w/1.0% BSA (11  $\mu\text{L}$ ) is added to each well. The plates are incubated 2 hours at room temperature. The plates are washed twice with B/B buffer and incubated 1 hour at room temperature with anti-biotin alkaline phosphatase (100  $\mu\text{L}$ /well) in B/B buffer containing 1.0%  
25 BSA. The plates are washed twice with B/B buffer and alkaline phosphatase substrate (100  $\mu\text{L}$ ) is added. Color is developed at room temperature. Color development is stopped by addition of 2N NaOH (25  $\mu\text{L}$ /well) and absorbance is read at 405 nm. The  $\text{IC}_{50}$  is the concentration of test  
30 substance needed to block 50% of the vitronectin binding to the receptor. A compound is considered to be active if it has a  $\text{IC}_{50}$  value of less than about  $\leq 10 \mu\text{M}$  in the  $\alpha_v\beta_3$ -Vitronectin Binding Assay. Compounds with a  $\text{IC}_{50}$  less than 100 nM for the inhibition of vitronectin are desirable.  
35 Using the methodology described above, a number of compounds of the present invention were found to exhibit a  $\text{IC}_{50}$  of  $\leq 10 \mu\text{M}$ , thereby confirming the utility of the

compounds of the present invention as effective  $\alpha_v\beta_3$  integrin inhibitors.

#### Integrin Cell-Based Adhesion Assays

5        In the adhesion assays, a 96 well plate was coated with the ligand (i.e., fibrinogen) and incubated overnight at 4°C. The following day, the cells were harvested, washed and loaded with a fluorescent dye. Compounds and cells were added together and then were immediately added to the coated  
10       plate. After incubation, loose cells are removed from the plate, and the plate (with adherent cells) is counted on a fluorometer. The ability of test compounds to inhibit cell adhesion by 50% is given by the IC<sub>50</sub> value and represents a measure of potency of inhibition of integrin mediated  
15       binding. Compounds were tested for their ability to block cell adhesion using assays specific for  $\alpha_v\beta_3$ ,  $\alpha_v\beta_5$  and  $\alpha_5\beta_1$  integrin interactions.

#### Platelet Aggregation Assay

20       Venous blood was obtained from anesthetized mongrel dogs or from healthy human donors who were drug- and aspirin-free for at least two weeks prior to blood collection. Blood was collected into citrated Vacutainer tubes. The blood was centrifuged for 15 minutes at 150 x g  
25       (850 RPM in a Sorvall RT6000 Tabletop Centrifuge with H-1000 B rotor) at room temperature, and platelet-rich plasma (PRP) was removed. The remaining blood was centrifuged for 15 minutes at 1500 x g (26,780 RPM) at room temperature, and platelet-poor plasma (PPP) was removed. Samples were  
30       assayed on a PAP-4 Platelet Aggregation Profiler, using PPP as the blank (100% transmittance). 200  $\mu$ L of PRP ( $5 \times 10^8$  platelets/mL) were added to each micro test tube, and transmittance was set to 0%. 20  $\mu$ L of ADP (10  $\mu$ M) was added to each tube, and the aggregation profiles were plotted (%  
35       transmittance versus time). Test agent (20  $\mu$ L) was added at different concentrations prior to the addition of the platelet agonist. Results are expressed as % inhibition of agonist-induced platelet aggregation.

Human Aortic Smooth Muscle Cell Migration Assay

A method for assessing  $\alpha_v\beta_3$ -mediated smooth muscle cell migration and agents which inhibit  $\alpha_v\beta_3$ -mediated smooth muscle cell migration is described in Liaw et al., *J. Clin. Invest.* (1995) 95: 713-724).

In Vivo Angiogenesis Model

A quantitative method for assessing angiogenesis and antiangiogenic agents is described in Passaniti et al., *Laboratory Investigation* (1992) 67: 519-528

Pig Restenosis Model

A method for assessing restenosis and agents which inhibit restenosis is described in Schwartz et al., *J. Am. College of Cardiology* (1992) 19: 267-274.

Mouse Retinopathy Model

A method for assessing retinopathy and agents which inhibit retinopathy is described in Smith et al., *Invest. Ophthalm. & Visual Science* (1994) 35: 101-111.

Dosage and Formulation

The compounds of this invention can be administered by any means that produces contact of the active agent with the agent's site of action, the  $\alpha_v\beta_3$  integrin, in the body of a mammal. They can be administered by any conventional means available for use in conjunction with pharmaceuticals, either as individual therapeutic agents or in a combination of therapeutic agents, such as a antiplatelet agent such as aspirin, piroxicam, or ticlopidine which are agonist-specific, or an anti-coagulant such as warfarin or heparin, or a thrombin inhibitor such as a boro-peptide, hirudin or argatroban, or a thrombolytic agent such as tissue plasminogen activator, anistreplase, urokinase or streptokinase, or combinations thereof. The compounds of the invention, or compounds of the invention in combination



with other therapeutic agents, can be administered alone, but generally administered with a pharmaceutical carrier selected on the basis of the chosen route of administration and standard pharmaceutical practice.

5       The dosage of the novel cyclic compounds of this invention administered will, of course, vary depending upon known factors, such as the pharmacodynamic characteristics of the particular agent and its mode and route of administration; the age, health and weight of the recipient;  
10   the nature and extent of the symptoms; the kind of concurrent treatment; the frequency of treatment; and the effect desired. A daily dosage of active ingredient can be expected to be about 0.001 to 10 milligrams per kilogram of body weight.

15       Dosage forms (compositions suitable for administration) contain from about 0.1 milligram to about 100 milligrams of active ingredient per unit. In these pharmaceutical compositions the active ingredient will ordinarily be present in an amount of about 0.5-95% by weight based on the  
20   total weight of the composition.

      The active ingredient can be administered orally in solid dosage forms, such as capsules, tablets, and powders, or in liquid dosage forms, such as elixirs, syrups, and suspensions. It can also be administered parenterally, in  
25   sterile liquid dosage forms.

      Gelatin capsules contain the active ingredient and powdered carriers, such as lactose, starch, cellulose derivatives, magnesium stearate, stearic acid, and the like. Similar diluents can be used to make compressed tablets.  
30   Both tablets and capsules can be manufactured as sustained release products to provide for continuous release of medication over a period of hours. Compressed tablets can be sugar coated or film coated to mask any unpleasant taste and protect the tablet from the atmosphere, or enteric coated  
35   for selective disintegration in the gastrointestinal tract.

      Liquid dosage forms for oral administration can contain coloring and flavoring to increase patient acceptance.

In general, water, a suitable oil, saline, aqueous dextrose (glucose), and related sugar solutions and glycols such as propylene glycol or polyethylene glycols are suitable carriers for parenteral solutions. Solutions for parenteral administration preferably contain a water soluble salt of the active ingredient, suitable stabilizing agents, and if necessary, buffer substances. Antioxidizing agents such as sodium bisulfite, sodium sulfite, or ascorbic acid, either alone or combined, are suitable stabilizing agents. Also used are citric acid and its salts and sodium EDTA. In addition, parenteral solutions can contain preservatives, such as benzalkonium chloride, methyl- or propyl-paraben, and chlorobutanol.

Suitable pharmaceutical carriers are described in *Remington's Pharmaceutical Sciences*, Mack Publishing Company, a standard reference text in this field.

Useful pharmaceutical dosage-forms for administration of the compounds of this invention can be illustrated as follows:

#### Capsules

A large number of unit capsules are prepared by filling standard two-piece hard gelatin capsules each with 10 milligrams of powdered active ingredient, 150 milligrams of lactose, 50 milligrams of cellulose, and 6 milligrams magnesium stearate.

#### Soft Gelatin Capsules

A mixture of active ingredient in a digestable oil such as soybean oil, cottonseed oil or olive oil is prepared and injected by means of a positive displacement pump into gelatin to form soft gelatin capsules containing 10 milligrams of the active ingredient. The capsules are washed and dried.

#### Tablets

A large number of tablets are prepared by conventional procedures so that the dosage unit was 10 milligrams of

active ingredient, 0.2 milligrams of colloidal silicon dioxide, 5 milligrams of magnesium stearate, 275 milligrams of microcrystalline cellulose, 11 milligrams of starch and 98.8 milligrams of lactose. Appropriate coatings may be applied to increase palatability or delay absorption.

The combination products of this invention, such as the novel  $\alpha_v\beta_3$  antagonist compounds of this invention in combination with an anti-coagulant agent such as warfarin or heparin, or an anti-platelet agent such as aspirin, piroxicam or ticlopidine, or a thrombin inhibitor such as a boro peptide, hirudin or argatroban, or a thrombolytic agent such as tissue plasminogen activator, anistreplase, urokinase or streptokinase, or combinations thereof, can be in any dosage form, such as those described above, and can also be administered in various ways, as described above.

In a preferred embodiment, the combination products of the invention are formulated together, in a single dosage form (that is, combined together in one capsule, tablet, powder, or liquid, etc.). When the combination products are not formulated together in a single dosage form, the  $\alpha_v\beta_3$  antagonist compounds of this invention and the anti-coagulant agent, anti-platelet agent, thrombin inhibitor, and/or thrombolytic agent may be administered at the same time (that is, together), or in any order, for example the compounds of this invention are administered first, followed by administration of the anti-coagulant agent, anti-platelet agent, thrombin inhibitor, and/or thrombolytic agent. When not administered at the same time, preferably the administration of the compound of this invention and any anti-coagulant agent, anti-platelet agent, thrombin inhibitor, and/or thrombolytic agent occurs less than about one hour apart, more preferably less than about 30 minutes apart, even more preferably less than about 15 minutes apart, and most preferably less than about 5 minutes apart. Preferably, administration of the combination products of the invention is oral. The terms oral agent, oral inhibitor, oral compound, or the like, as used herein,

denote compounds which may be orally administered. Although it is preferable that the  $\alpha_v\beta_3$  antagonist compounds of this invention and the anti-coagulant agent, anti-platelet agent, thrombin inhibitor, and/or thrombolytic agent are both  
5 administered in the same fashion (that is, for example, both orally), if desired, they may each be administered in different fashions (that is, for example, one component of the combination product may be administered orally, and another component may be administered intravenously). The  
10 dosage of the combination products of the invention may vary depending upon various factors such as the pharmacodynamic characteristics of the particular agent and its mode and route of administration, the age, health and weight of the recipient, the nature and extent of the symptoms, the kind  
15 of concurrent treatment, the frequency of treatment, and the effect desired, as described above.

As discussed above, where two or more of the foregoing therapeutic agents are combined or co-administered with the compounds of this invention, generally the amount of each  
20 component in a typical daily dosage and typical dosage form may be reduced relative to the usual dosage of the agent when administered alone, in view of the additive or synergistic effect which would be obtained as a result of addition of further agents in accordance with the present  
25 invention.

Particularly when provided as a single dosage form, the potential exists for a chemical interaction between the combined active ingredients (for example, a novel compound of this invention and an anti-coagulant such as warfarin or  
30 heparin, or a novel compound of this invention and an anti-platelet agent such as aspirin, piroxicam or ticlopidine, or a novel compound of this invention and a thrombin inhibitor such as a boroheptide, hirudin or argatroban, or a novel compound of this invention and a thrombolytic agent such as  
35 tissue plasminogen activator, anistreplase, urokinase or streptokinase, or combinations thereof). For this reason, the preferred dosage forms of the combination products of this invention are formulated such that although the active

ingredients are combined in a single dosage form, the physical contact between the active ingredients is minimized (that is, reduced).

5 In order to minimize contact, one embodiment of this invention where the product is orally administered provides for a combination product wherein one active ingredient is enteric coated. By enteric coating one of the active ingredients, it is possible not only to minimize the contact between the combined active ingredients, but also, it is  
10 possible to control the release of one of these components in the gastrointestinal tract such that one of these components is not released in the stomach but rather is released in the intestines. Another embodiment of this invention where oral administration is desired provides for  
15 a combination product wherein one of the active ingredients is coated with a sustained-release material which effects a sustained-release throughout the gastrointestinal tract and also serves to minimize physical contact between the combined active ingredients. Furthermore, the sustained-  
20 released component can be additionally enteric coated such that the release of this component occurs only in the intestine. Still another approach would involve the formulation of a combination product in which the one component is coated with a sustained and/or enteric release  
25 polymer, and the other component is also coated with a polymer such as a low viscosity grade of hydroxypropyl methylcellulose (HPMC) or other appropriate materials as known in the art, in order to further separate the active components. The polymer coating serves to form an  
30 additional barrier to interaction with the other component.

Dosage forms of the combination products of the present invention wherein one active ingredient is enteric coated can be in the form of tablets such that the enteric coated component and the other active ingredient are blended  
35 together and then compressed into a tablet or such that the enteric coated component is compressed into one tablet layer and the other active ingredient is compressed into an additional layer. Optionally, in order to further separate

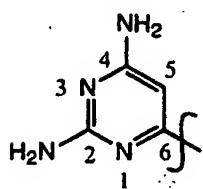
the two layers, one or more placebo layers may be present such that the placebo layer is between the layers of active ingredients. In addition, dosage forms of the present invention can be in the form of capsules wherein one active  
5 ingredient is compressed into a tablet or in the form of a plurality of microtablets, particles, granules or non-perils, which are then enteric coated. These enteric coated microtablets, particles, granules or non-perils are then placed into a capsule or compressed into a capsule along  
10 with a granulation of the other active ingredient.

These as well as other ways of minimizing contact between the components of combination products of the present invention, whether administered in a single dosage form or administered in separate forms but at the same time  
15 by the same manner, will be readily apparent to those skilled in the art, once armed with the present disclosure.

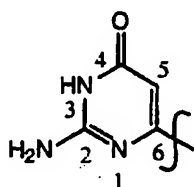
Pharmaceutical kits useful in, for example, the inhibition of thrombus formation, the prevention of blood  
20 clots, and/or the treatment of thromboembolic disorders, which comprise a therapeutically effective amount of a compound according to the method of the present invention along with a therapeutically effective amount of an anti-coagulant agent such as warfarin or heparin, or an anti-platelet agent such as aspirin, piroxicam or ticlopidine, or  
25 a thrombin inhibitor such as a boro-peptide, hirudin or argatroban, or a thrombolytic agent such as tissue plasminogen activator, anistreplase, urokinase or streptokinase, or combinations thereof, in one or more  
30 sterile containers, are also within the ambit of the present invention. Sterilization of the container may be carried out using conventional sterilization methodology well known to those skilled in the art. The sterile containers of materials may comprise separate containers, or one or more  
35 multi-part containers, as exemplified by the UNIVIAL™ two-part container (available from Abbott Labs, Chicago, Illinois), as desired. The compounds according to the method of the invention and the anti-coagulant agent, anti-

platelet agent, thrombin inhibitor, thrombolytic agent, and/or combinations thereof, may be separate, or combined into a single dosage form as described above. Such kits may further include, if desired, one or more of various conventional pharmaceutical kit components, such as for example, one or more pharmaceutically acceptable carriers, additional vials for mixing the components, etc., as will be readily apparent to those skilled in the art. Instructions, either as inserts or as labels, indicating quantities of the components to be administered, guidelines for administration, and/or guidelines for mixing the components, may also be included in the kit.

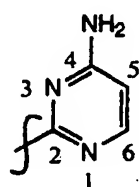
In Tables 1-4 below the structures which correspond to the names for the group  $R^1$ , eg Het-1, Het-2, Het-3, etc., are depicted below. Some of the heterocycles may exist as either a single prototropic tautomer or a mixture of prototropic tautomers. Additionally some of the heterocycles may exist as either a keto or enol tautomer or a mixture of both. The structure drawn does not constitute a limitation on the tautomeric form of the heterocycle. Structures defined under the heading  $R^1$  are:



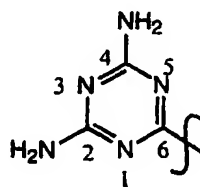
Het-1



Het-2

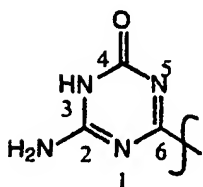


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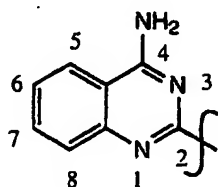


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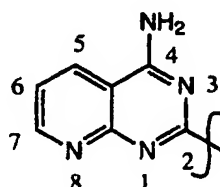
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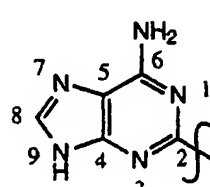
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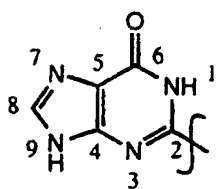
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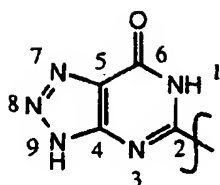
Het-7



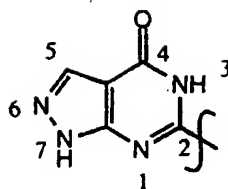
Het-8



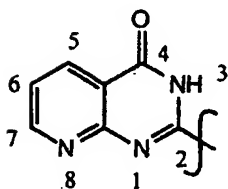
Het-9



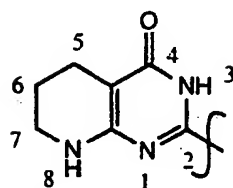
Het-10



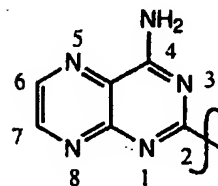
Het-11



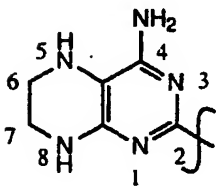
Het-12



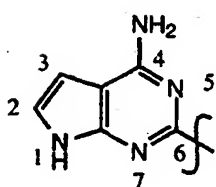
Het-13



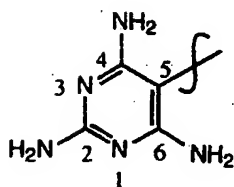
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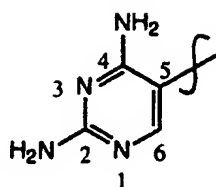
Het-15



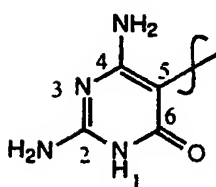
Het-16



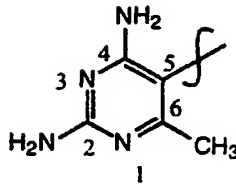
Het-17



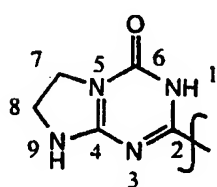
Het-18



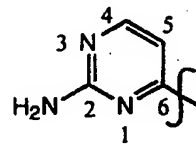
Het-19



Het-20



Het-21

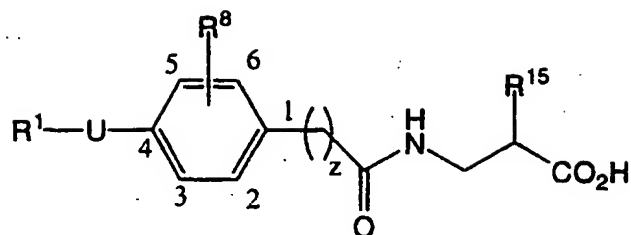


Het-22

Representative compounds of the present invention are  
10 listed in Tables 1-4 below.



Table 1



Ex.No.	R <sup>1</sup>	U	R <sup>8</sup>	z	R <sup>15</sup>	MS
A-1	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et	
A-2	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph	
A-3	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-4	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-5	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-6	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-7	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>	
A-8	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	485.0
A-9	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )	
A-10	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )	
A-11	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )	
A-12	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)	
A-13	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)	
A-14	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-15	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)	
A-16	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-17	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)	
A-18	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)	
A-19	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)	
A-20	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )	
A-21	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )	
A-22	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )	
A-23	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	527.1
A-24	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-25	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-26	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	
A-27	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	

A-28	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-29	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4- (3,5-dimethyl) isoxazolyl]
A-30	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-31	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-32	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-33	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-34	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-35	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-36	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-37	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-38	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-39	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-40	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-41	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-42	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-43	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-CH <sub>3</sub> )
A-44	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-CH <sub>3</sub> )
A-45	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
A-46	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)
A-47	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
A-48	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
A-49	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
A-50	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
A-51	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
A-52	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
A-53	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)
A-54	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-OCH <sub>3</sub> )
A-55	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-OCH <sub>3</sub> )
A-56	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-OCH <sub>3</sub> )
A-57	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6- trimethylphenyl)
A-58	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6- trichlorophenyl)
A-59	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6- dichlorophenyl)
A-60	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6- methylphenyl)
A-61	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4- (2,6- dimethylphenyl)phenyl]
A-62	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-63	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4- (3,5-dimethyl) isoxazolyl]

A-64	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-65	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-66	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-67	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-68	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-69	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-70	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-71	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-72	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-73	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-74	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-75	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-76	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-77	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-78	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-79	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-80	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-81	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-82	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-83	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-84	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-85	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-86	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-87	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-88	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-89	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-90	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-91	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-92	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-93	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-94	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-95	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-96	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-97	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-98	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-99	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)

A-100	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-101	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-102	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-103	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-104	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-105	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-106	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-107	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-108	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-109	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
A-110	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-111	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-CH <sub>3</sub> )
A-112	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-CH <sub>3</sub> )
A-113	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
A-114	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)
A-115	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
A-116	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
A-117	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
A-118	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
A-119	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
A-120	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
A-121	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)
A-122	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-OCH <sub>3</sub> )
A-123	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-OCH <sub>3</sub> )
A-124	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-OCH <sub>3</sub> )
A-125	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-126	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-127	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-128	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-129	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4- (2,6-dimethylphenyl) phenyl]
A-130	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-131	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4- (3,5-dimethyl) isoxazolyl]
A-132	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
A-133	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-napthyl)
A-134	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-135	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph

A-136	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-137	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-138	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-139	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-140	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-141	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-142	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-143	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-144	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-145	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-146	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-147	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-148	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-149	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-150	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-151	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-152	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-153	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-154	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-155	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-156	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-157	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-158	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-159	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-160	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-161	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-162	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-163	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-164	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-165	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-166	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-167	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-168	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-169	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-170	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-171	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et

A-172	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph	
A-173	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-174	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-175	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-176	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-177	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>	
A-178	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-179	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )	
A-180	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )	
A-181	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )	
A-182	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)	
A-183	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)	
A-184	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-185	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)	
A-186	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-187	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)	
A-188	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)	
A-189	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)	
A-190	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )	
A-191	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )	
A-192	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )	
A-193	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-194	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-195	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-196	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	
A-197	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-198	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-199	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-200	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)	
A-201	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-napthyl)	
A-202	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph	
A-203	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph	
A-204	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh	
A-205	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et	
A-206	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph	479.9
A-207	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	

A-208	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr	
A-209	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu	
A-210	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu	446.1
A-211	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>	
A-212	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-213	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )	
A-214	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )	
A-215	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )	
A-216	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)	
A-217	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)	
A-218	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-219	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)	
A-220	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-221	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)	
A-222	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)	
A-223	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)	
A-224	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )	
A-225	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )	
A-226	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )	
A-227	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	528.1
A-228	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-229	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-230	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	
A-231	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-232	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-233	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
A-234	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-235	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)	
A-236	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph	
A-237	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph	
A-238	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh	
A-239	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et	
A-240	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph	
A-241	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr	
A-242	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr	
A-243	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu	

A-244	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-245	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-246	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-247	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-248	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-249	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-250	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-251	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-252	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-253	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-254	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-255	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-256	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-257	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-258	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-259	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-260	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-261	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-262	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-263	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-264	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-265	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-266	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-267	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethylisoxazolyl)}
A-268	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-269	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-270	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-271	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-272	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-273	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-274	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-275	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-276	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-277	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-278	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-279	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>



A-280	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-281	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-282	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-283	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-284	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-285	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-286	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-287	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-288	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-289	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-290	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-291	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-292	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-293	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-294	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-295	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-296	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-297	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-298	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-299	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-300	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-301	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-302	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-303	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-304	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-305	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-306	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-307	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-308	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-309	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-310	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-311	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-312	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-313	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-314	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-315	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )

A-316	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-317	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-318	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-319	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-320	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-321	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-322	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-323	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-324	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-325	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-326	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-327	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-328	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-329	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-330	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-331	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-332	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-333	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (4-(2,6-dimethylphenyl)phenyl)
A-334	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-335	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-336	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-337	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-338	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-339	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-340	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-341	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-342	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-343	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-344	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-345	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-346	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-347	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-348	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-349	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-350	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-351	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )

A-352	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-353	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-354	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-355	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-356	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-357	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-358	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-359	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-360	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-361	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-362	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-363	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-364	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-365	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-366	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-367	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-368	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-369	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-370	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-371	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-372	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-373	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-374	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-375	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-376	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-377	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-378	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-379	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-380	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-381	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-382	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-383	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-384	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-385	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-386	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-387	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)

A-388	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-389	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
A-390	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-391	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
A-392	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
A-393	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
A-394	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
A-395	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
A-396	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
A-397	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-398	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-399	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-400	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-401	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-402	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-403	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-404	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-405	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-406	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-407	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
A-408	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
A-409	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-410	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-411	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-412	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-413	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-414	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-415	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-416	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-417	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
A-418	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
A-419	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
A-420	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
A-421	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
A-422	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-423	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)

A-424	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
A-425	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
A-426	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
A-427	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)
A-428	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-OCH <sub>3</sub> )
A-429	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-OCH <sub>3</sub> )
A-430	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-OCH <sub>3</sub> )
A-431	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-432	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-433	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-434	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
A-435	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-436	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-437	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-438	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-439	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
A-440	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
A-441	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
A-442	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
A-443	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-444	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-445	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-446	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-447	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
A-448	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-449	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-CH <sub>3</sub> )
A-450	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-CH <sub>3</sub> )
A-451	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
A-452	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)
A-453	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
A-454	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
A-455	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
A-456	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
A-457	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
A-458	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
A-459	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)

A-460	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )	
A-461	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )	
A-462	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )	
A-463	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-464	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-465	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-466	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	
A-467	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-468	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-469	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-470	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)	
A-471	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-napthyl)	
A-472	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph	
A-473	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph	
A-474	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh	
A-475	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-476	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-477	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-478	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-479	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-480	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-481	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-482	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	528.1
A-483	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-484	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-485	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-486	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-487	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-488	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)	
A-489	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-490	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-491	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-492	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-493	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-494	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	

A-495	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-496	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-497	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-498	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-499	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-500	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-501	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-502	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-503	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-504	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-505	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-506	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-507	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-508	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-509	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-510	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-511	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-512	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-513	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-514	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-515	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-516	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-517	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-518	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-519	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-520	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-521	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-522	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-523	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-524	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-525	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-526	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-527	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-528	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)

A-529	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
A-530	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-531	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-532	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-533	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-534	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-535	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-536	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-537	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-538	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-539	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-540	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-541	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-542	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-543	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
A-544	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-545	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-546	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-547	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-548	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-549	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-550	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-551	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-552	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-553	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-554	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-555	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-556	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-557	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
A-558	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-559	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-560	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-561	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-562	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-563	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph



A-564	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-565	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-566	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-567	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-568	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-569	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-570	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-571	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-572	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-573	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-574	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-575	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-576	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-577	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-578	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-579	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-580	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-581	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-582	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-583	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-584	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-585	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-586	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-587	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-588	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-589	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-590	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-591	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-592	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-593	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-594	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-595	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-596	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-597	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]

A-598	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-599	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-600	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-601	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-602	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-603	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-604	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-605	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-606	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-607	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-608	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-609	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-610	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-611	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-612	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-613	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-614	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-615	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-616	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-617	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-618	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-619	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-620	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-621	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-622	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-623	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-624	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-625	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-626	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-627	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-628	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-629	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-630	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-631	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-632	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu

A-633	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-634	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-635	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-636	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-637	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-638	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-639	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-640	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-641	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-642	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-643	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-644	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-645	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-646	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-647	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-648	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-649	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-650	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	563.2
A-651	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-652	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-653	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-654	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-655	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-656	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-657	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-658	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-659	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-660	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-661	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-662	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-663	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-664	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-665	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-666	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	

A-667	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-668	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-669	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-670	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-671	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-672	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-673	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-674	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-675	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-676	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-677	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-678	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-679	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-680	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-681	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-682	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-683	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-684	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-685	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-686	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-687	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-688	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-689	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-690	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-691	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-692	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-693	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-694	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-695	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-696	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-697	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-698	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-699	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-700	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr

A-701	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-702	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-703	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-704	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-705	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-706	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-707	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-708	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-709	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-710	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-711	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-712	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-713	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-714	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-715	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-716	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-717	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-718	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-719	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-720	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-721	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-722	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-723	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-724	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-725	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-726	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-727	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-728	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-729	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-730	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-731	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-732	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-733	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-734	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)

A-735	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-736	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-737	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-738	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-739	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-740	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-741	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-742	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-743	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-744	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-745	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-746	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-747	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-748	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-749	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-750	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-751	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-752	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-753	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-754	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-755	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-756	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-757	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-758	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-759	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-760	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-761	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-762	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-763	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-764	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-765	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-766	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-767	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-768	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)

A-769	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-770	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-771	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-772	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-773	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-774	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-775	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-776	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-777	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-778	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-779	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-780	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-781	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-782	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-783	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-784	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-785	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-786	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-787	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-788	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-789	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-790	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-791	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-792	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-793	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-794	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-795	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-796	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-797	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-798	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-799	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-800	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-801	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-802	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-803	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)

A-804	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-805	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-806	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-807	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-808	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-809	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
A-810	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
A-811	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-812	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-813	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-814	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-815	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-816	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-817	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-818	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-819	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-820	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-821	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-822	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-823	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
A-824	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
A-825	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-826	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-827	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-828	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-829	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-830	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-831	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-832	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-833	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-834	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-835	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-836	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)



A-837	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-838	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-839	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-840	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-841	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-842	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-843	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-844	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-845	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-846	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-847	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-848	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-849	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-850	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-851	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-852	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-853	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-854	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-855	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-856	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-857	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-858	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-859	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-860	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-861	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-862	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-863	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-864	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-865	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-866	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-867	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-868	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-869	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-870	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-871	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph

A-872	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-873	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-874	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-875	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-876	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-877	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-878	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-879	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-880	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-881	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-882	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-883	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-884	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-885	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-886	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-887	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-888	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-889	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-890	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-891	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-892	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-893	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-894	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-895	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-896	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-897	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-898	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-899	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-900	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-901	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-902	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-903	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-904	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-905	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]

A-906	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-907	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-908	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-909	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-910	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-911	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-912	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-913	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-914	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-915	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-916	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-917	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-918	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-919	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-920	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-921	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-922	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-923	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-924	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-925	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-926	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-927	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-928	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-929	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-930	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-931	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-932	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-933	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-934	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-935	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-936	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-937	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-938	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-939	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-940	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu

A-941	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-942	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-943	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-944	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-945	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-946	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-947	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-948	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-949	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-950	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-951	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-952	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-953	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-954	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-955	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-956	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-957	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-958	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-959	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-960	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-961	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-962	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-963	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
A-964	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-965	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-966	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-967	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-968	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-969	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-970	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-971	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-972	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-973	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-974	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)

A-975	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl
A-976	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-977	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl]
A-978	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-979	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-980	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-981	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-982	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-983	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-984	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-985	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-986	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-987	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-988	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-989	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl
A-990	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-991	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl]
A-992	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-993	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-994	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-995	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-996	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-997	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-998	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-999	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-1000	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1001	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1002	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1003	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl
A-1004	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1005	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl]
A-1006	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1007	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-1008	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr

A-1009	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-1010	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-1011	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1012	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1013	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-1014	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1015	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1016	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1017	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-1018	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1019	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethylisoxazolyl)}
A-1020	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1021	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-1022	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-1023	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-1024	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-1025	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1026	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1027	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-1028	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1029	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1030	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1031	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
A-1032	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1033	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethylisoxazolyl)}
A-1034	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1035	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-1036	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-1037	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-1038	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-1039	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1040	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1041	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-1042	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)

A-1043	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1044	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1045	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1046	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1047	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1048	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1049	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-1050	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-1051	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-1052	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-1053	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1054	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -Cl)
A-1055	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -F)
A-1056	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1057	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1058	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1059	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1060	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1061	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1062	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1063	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
A-1064	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
A-1065	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
A-1066	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
A-1067	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1068	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -Cl)
A-1069	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -F)
A-1070	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1071	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1072	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1073	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1074	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1075	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1076	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)

A-1077	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-1078	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-1079	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-1080	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-1081	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1082	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1083	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-1084	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1085	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1086	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1087	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1088	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1089	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1090	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1091	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-1092	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-1093	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-1094	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-1095	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1096	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1097	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
A-1098	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1099	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1100	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1101	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1102	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1103	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1104	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1105	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
A-1106	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
A-1107	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
A-1108	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
A-1109	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
A-1110	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1111	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)



A-1112	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1113	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1114	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1115	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1116	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1117	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1118	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
A-1119	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Pr
A-1120	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Pr
A-1121	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Bu
A-1122	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Bu
A-1123	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph
A-1124	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-Cl)
A-1125	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-F)
A-1126	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1127	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1128	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1129	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1130	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1131	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1132	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (1-naphthyl)
A-1133	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Pr
A-1134	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Pr
A-1135	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Bu
A-1136	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Bu
A-1137	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph
A-1138	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1139	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-F)
A-1140	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1141	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1142	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1143	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1144	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)

A-1145	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1146	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (1-naphthyl)
A-1147	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Pr
A-1148	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Pr
A-1149	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Bu
A-1150	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Bu
A-1151	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph
A-1152	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-Cl)
A-1153	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-F)
A-1154	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1155	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1156	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1157	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1158	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1159	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1160	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (1-naphthyl)
A-1161	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Pr
A-1162	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Pr
A-1163	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Bu
A-1164	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Bu
A-1165	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph
A-1166	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-Cl)
A-1167	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-F)
A-1168	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
A-1169	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
A-1170	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,6-dichlorophenyl)
A-1171	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
A-1172	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1173	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
A-1174	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (1-naphthyl)
A-1175	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Pr
A-1176	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Pr
A-1177	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Bu
A-1178	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Bu
A-1179	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph

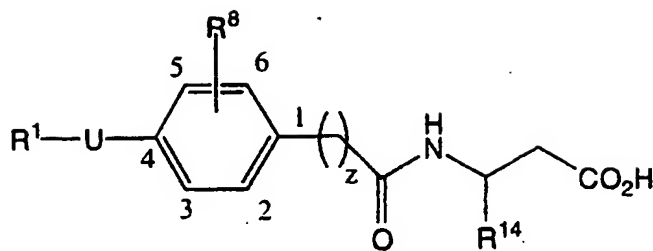
A-1180	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1181	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-F)	
A-1182	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-1183	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1184	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1185	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-1186	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1187	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
A-1188	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1189	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Pr	
A-1190	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Pr	
A-1191	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Bu	
A-1192	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Bu	
A-1193	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph	
A-1194	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1195	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-F)	
A-1196	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-1197	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1198	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1199	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-1200	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1201	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
A-1202	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1203	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-1204	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-1205	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-1206	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-1207	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-1208	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1209	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-1210	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	553.6
A-1211	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1212	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1213	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	

A-1214	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1215	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
A-1216	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1217	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-1218	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-1219	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-1220	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-1221	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-1222	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1223	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-1224	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-1225	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1226	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1227	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-1228	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1229	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
A-1230	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1231	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-1232	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-1233	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-1234	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-1235	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-1236	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1237	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-1238	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	554.2
A-1239	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1240	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1241	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-1242	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1243	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
A-1244	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1245	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-1246	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-1247	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-1248	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	

A-1249	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-1250	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1251	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-1252	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-1253	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1254	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1255	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-1256	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1257	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-1258	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1259	Het-22	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-1260	Het-22	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-1261	Het-22	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-1262	Het-22	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-1263	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-1264	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1265	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-1266	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	513.2
A-1267	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1268	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
A-1269	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
A-1270	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
A-1271	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
A-1272	Het-22	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
A-1273	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
A-1274	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
A-1275	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
A-1276	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
A-1277	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
A-1278	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
A-1279	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
A-1280	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
A-1281	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
A-1282	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	

A-1283	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl
A-1284	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
A-1285	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethylisoxazolyl]
A-1286	Het-22	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)

Table 2



5

Ex.No.	R <sup>1</sup>	U	R <sup>8</sup>	z	R <sup>14</sup>	MS
B-1	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>	
B-2	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH	
B-3	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl	
B-4	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl	
B-5	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph	
B-6	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)	
B-7	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)	
B-8	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph	
B-9	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph	
B-10	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl	
B-11	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl	
B-12	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl	
B-13	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>	
B-14	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH	
B-15	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl	
B-16	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl	
B-17	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph	
B-18	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)	
B-19	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)	
B-20	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph	
B-21	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph	
B-22	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl	
B-23	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl	
B-24	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl	
B-25	Het-1	NHCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>	
B-26	Het-1	NHCH <sub>2</sub>	H	0	C≡CH	
B-27	Het-1	NHCH <sub>2</sub>	H	0	cyclopropyl	

B-28	Het-1	NHCH <sub>2</sub>	H	0	cyclohexyl
B-29	Het-1	NHCH <sub>2</sub>	H	0	Ph
B-30	Het-1	NHCH <sub>2</sub>	H	0	Ph(p-F)
B-31	Het-1	NHCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-32	Het-1	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-33	Het-1	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-34	Het-1	NHCH <sub>2</sub>	H	0	3-pyridyl
B-35	Het-1	NHCH <sub>2</sub>	H	0	5-pyrimidinyl
B-36	Het-1	NHCH <sub>2</sub>	H	0	3-quinolyl
B-37	Het-1	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-38	Het-1	NHCH <sub>2</sub>	H	1	C≡CH
B-39	Het-1	NHCH <sub>2</sub>	H	1	cyclopropyl
B-40	Het-1	NHCH <sub>2</sub>	H	1	cyclohexyl
B-41	Het-1	NHCH <sub>2</sub>	H	1	Ph
B-42	Het-1	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-43	Het-1	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-44	Het-1	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-45	Het-1	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-46	Het-1	NHCH <sub>2</sub>	H	1	3-pyridyl
B-47	Het-1	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-48	Het-1	NHCH <sub>2</sub>	H	1	3-quinolyl
B-49	Het-1	OCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-50	Het-1	OCH <sub>2</sub>	H	0	C≡CH
B-51	Het-1	OCH <sub>2</sub>	H	0	cyclopropyl
B-52	Het-1	OCH <sub>2</sub>	H	0	cyclohexyl
B-53	Het-1	OCH <sub>2</sub>	H	0	Ph
B-54	Het-1	OCH <sub>2</sub>	H	0	Ph(p-F)
B-55	Het-1	OCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-56	Het-1	OCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-57	Het-1	OCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-58	Het-1	OCH <sub>2</sub>	H	0	3-pyridyl
B-59	Het-1	OCH <sub>2</sub>	H	0	5-pyrimidinyl
B-60	Het-1	OCH <sub>2</sub>	H	0	3-quinolyl
B-61	Het-1	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-62	Het-1	OCH <sub>2</sub>	H	1	C≡CH
B-63	Het-1	OCH <sub>2</sub>	H	1	cyclopropyl
B-64	Het-1	OCH <sub>2</sub>	H	1	cyclohexyl



B-65	Het-1	OCH <sub>2</sub>	H	1	Ph
B-66	Het-1	OCH <sub>2</sub>	H	1	Ph (p-F)
B-67	Het-1	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-68	Het-1	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-69	Het-1	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-70	Het-1	OCH <sub>2</sub>	H	1	3-pyridyl
B-71	Het-1	OCH <sub>2</sub>	H	1	5-pyrimidinyl
B-72	Het-1	OCH <sub>2</sub>	H	1	3-quinolyl
B-73	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-74	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-75	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-76	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-77	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-78	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (p-F)
B-79	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-80	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-81	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-82	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-83	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-84	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-85	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-86	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-87	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-88	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-89	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-90	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (p-F)
B-91	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-92	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-93	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-94	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-95	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-96	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-97	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-98	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-99	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-100	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-101	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph

B-102	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-103	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-104	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-105	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-106	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-107	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-108	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-109	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-110	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-111	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-112	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-113	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-114	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-115	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-116	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-117	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-118	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-119	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-120	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-121	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-122	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-123	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-124	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-125	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-126	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-127	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-128	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-129	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-130	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-131	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-132	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-133	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-134	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-135	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-136	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-137	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-138	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)

B-139	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-140	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-141	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-142	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-143	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-144	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-145	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-146	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-147	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-148	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-149	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-150	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-151	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-152	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-153	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-154	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-155	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-156	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-157	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-158	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-159	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-160	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-161	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-162	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-163	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-164	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-165	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-166	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-167	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-168	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-169	Het-2	NHCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-170	Het-2	NHCH <sub>2</sub>	H	0	C≡CH
B-171	Het-2	NHCH <sub>2</sub>	H	0	cyclopropyl
B-172	Het-2	NHCH <sub>2</sub>	H	0	cyclohexyl
B-173	Het-2	NHCH <sub>2</sub>	H	0	Ph
B-174	Het-2	NHCH <sub>2</sub>	H	0	Ph(p-F)
B-175	Het-2	NHCH <sub>2</sub>	H	0	Ph (3,5-dichloro)

B-176	Het-2	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-177	Het-2	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-178	Het-2	NHCH <sub>2</sub>	H	0	3-pyridyl
B-179	Het-2	NHCH <sub>2</sub>	H	0	5-pyrimidinyl
B-180	Het-2	NHCH <sub>2</sub>	H	0	3-quinolyl
B-181	Het-2	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-182	Het-2	NHCH <sub>2</sub>	H	1	C≡CH
B-183	Het-2	NHCH <sub>2</sub>	H	1	cyclopropyl
B-184	Het-2	NHCH <sub>2</sub>	H	1	cyclohexyl
B-185	Het-2	NHCH <sub>2</sub>	H	1	Ph
B-186	Het-2	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-187	Het-2	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-188	Het-2	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-189	Het-2	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-190	Het-2	NHCH <sub>2</sub>	H	1	3-pyridyl
B-191	Het-2	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-192	Het-2	NHCH <sub>2</sub>	H	1	3-quinolyl
B-193	Het-2	OCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-194	Het-2	OCH <sub>2</sub>	H	0	C≡CH
B-195	Het-2	OCH <sub>2</sub>	H	0	cyclopropyl
B-196	Het-2	OCH <sub>2</sub>	H	0	cyclohexyl
B-197	Het-2	OCH <sub>2</sub>	H	0	Ph
B-198	Het-2	OCH <sub>2</sub>	H	0	Ph(p-F)
B-199	Het-2	OCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-200	Het-2	OCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-201	Het-2	OCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-202	Het-2	OCH <sub>2</sub>	H	0	3-pyridyl
B-203	Het-2	OCH <sub>2</sub>	H	0	5-pyrimidinyl
B-204	Het-2	OCH <sub>2</sub>	H	0	3-quinolyl
B-205	Het-2	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-206	Het-2	OCH <sub>2</sub>	H	1	C≡CH
B-207	Het-2	OCH <sub>2</sub>	H	1	cyclopropyl
B-208	Het-2	OCH <sub>2</sub>	H	1	cyclohexyl
B-209	Het-2	OCH <sub>2</sub>	H	1	Ph
B-210	Het-2	OCH <sub>2</sub>	H	1	Ph(p-F)
B-211	Het-2	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-212	Het-2	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph

B-213	Het-2	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-214	Het-2	OCH <sub>2</sub>	H	1	3-pyridyl
B-215	Het-2	OCH <sub>2</sub>	H	1	5-pyrimidinyl
B-216	Het-2	OCH <sub>2</sub>	H	1	3-quinolyl
B-217	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-218	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-219	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-220	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-221	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-222	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-223	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-224	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-225	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-226	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-227	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-228	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-229	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-230	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-231	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-232	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-233	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-234	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-235	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-236	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-237	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-238	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-239	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-240	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-241	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-242	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-243	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-244	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-245	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-246	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-247	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-248	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-249	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph

B-250	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-251	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-252	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-253	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-254	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-255	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-256	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-257	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-258	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-259	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-260	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-261	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-262	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-263	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-264	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-265	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-266	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-267	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-268	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-269	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-270	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-271	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-272	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-273	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-274	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-275	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-276	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-277	Het-3	NHCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-278	Het-3	NHCH <sub>2</sub>	H	0	C≡CH
B-279	Het-3	NHCH <sub>2</sub>	H	0	cyclopropyl
B-280	Het-3	NHCH <sub>2</sub>	H	0	cyclohexyl
B-281	Het-3	NHCH <sub>2</sub>	H	0	Ph
B-282	Het-3	NHCH <sub>2</sub>	H	0	Ph(p-F)
B-283	Het-3	NHCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-284	Het-3	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-285	Het-3	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-286	Het-3	NHCH <sub>2</sub>	H	0	3-pyridyl

B-287	Het-3	NHCH <sub>2</sub>	H	0	5-pyrimidinyl
B-288	Het-3	NHCH <sub>2</sub>	H	0	3-quinolyl
B-289	Het-3	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-290	Het-3	NHCH <sub>2</sub>	H	1	C≡CH
B-291	Het-3	NHCH <sub>2</sub>	H	1	cyclopropyl
B-292	Het-3	NHCH <sub>2</sub>	H	1	cyclohexyl
B-293	Het-3	NHCH <sub>2</sub>	H	1	Ph
B-294	Het-3	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-295	Het-3	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-296	Het-3	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-297	Het-3	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-298	Het-3	NHCH <sub>2</sub>	H	1	3-pyridyl
B-299	Het-3	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-300	Het-3	NHCH <sub>2</sub>	H	1	3-quinolyl
B-301	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
B-302	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
B-303	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
B-304	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
B-305	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
B-306	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
B-307	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
B-308	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
B-309	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
B-310	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
B-311	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
B-312	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
B-313	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-314	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-315	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-316	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-317	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-318	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-319	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-320	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-321	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-322	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-323	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl

B-324	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-325	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-326	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-327	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-328	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-329	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-330	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-331	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-332	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-333	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-334	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-335	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-336	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-337	Het-4	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-338	Het-4	NHCH <sub>2</sub>	H	1	C≡CH
B-339	Het-4	NHCH <sub>2</sub>	H	1	cyclopropyl
B-340	Het-4	NHCH <sub>2</sub>	H	1	cyclohexyl
B-341	Het-4	NHCH <sub>2</sub>	H	1	Ph
B-342	Het-4	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-343	Het-4	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-344	Het-4	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-345	Het-4	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-346	Het-4	NHCH <sub>2</sub>	H	1	3-pyridyl
B-347	Het-4	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-348	Het-4	NHCH <sub>2</sub>	H	1	3-quinolyl
B-349	Het-4	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-350	Het-4	OCH <sub>2</sub>	H	1	C≡CH
B-351	Het-4	OCH <sub>2</sub>	H	1	cyclopropyl
B-352	Het-4	OCH <sub>2</sub>	H	1	cyclohexyl
B-353	Het-4	OCH <sub>2</sub>	H	1	Ph
B-354	Het-4	OCH <sub>2</sub>	H	1	Ph(p-F)
B-355	Het-4	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-356	Het-4	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-357	Het-4	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-358	Het-4	OCH <sub>2</sub>	H	1	3-pyridyl
B-359	Het-4	OCH <sub>2</sub>	H	1	5-pyrimidinyl
B-360	Het-4	OCH <sub>2</sub>	H	1	3-quinolyl



B-361	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-362	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
B-363	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
B-364	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
B-365	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
B-366	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
B-367	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-368	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-369	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-370	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
B-371	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
B-372	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
B-373	Het-5	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-374	Het-5	NHCH <sub>2</sub>	H	1	C≡CH
B-375	Het-5	NHCH <sub>2</sub>	H	1	cyclopropyl
B-376	Het-5	NHCH <sub>2</sub>	H	1	cyclohexyl
B-377	Het-5	NHCH <sub>2</sub>	H	1	Ph
B-378	Het-5	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-379	Het-5	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-380	Het-5	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-381	Het-5	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-382	Het-5	NHCH <sub>2</sub>	H	1	3-pyridyl
B-383	Het-5	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-384	Het-5	NHCH <sub>2</sub>	H	1	3-quinolyl
B-385	Het-5	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-386	Het-5	OCH <sub>2</sub>	H	1	C≡CH
B-387	Het-5	OCH <sub>2</sub>	H	1	cyclopropyl
B-388	Het-5	OCH <sub>2</sub>	H	1	cyclohexyl
B-389	Het-5	OCH <sub>2</sub>	H	1	Ph
B-390	Het-5	OCH <sub>2</sub>	H	1	Ph(p-F)
B-391	Het-5	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-392	Het-5	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-393	Het-5	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-394	Het-5	OCH <sub>2</sub>	H	1	3-pyridyl
B-395	Het-5	OCH <sub>2</sub>	H	1	5-pyrimidinyl
B-396	Het-5	OCH <sub>2</sub>	H	1	3-quinolyl
B-397	Het-6	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>

B-398	Het-6	NHCH <sub>2</sub>	H	1	C≡CH
B-399	Het-6	NHCH <sub>2</sub>	H	1	cyclopropyl
B-400	Het-6	NHCH <sub>2</sub>	H	1	cyclohexyl
B-401	Het-6	NHCH <sub>2</sub>	H	1	Ph
B-402	Het-6	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-403	Het-6	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-404	Het-6	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-405	Het-6	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-406	Het-6	NHCH <sub>2</sub>	H	1	3-pyridyl
B-407	Het-6	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-408	Het-6	NHCH <sub>2</sub>	H	1	3-quinolyl
B-409	Het-7	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-410	Het-7	NHCH <sub>2</sub>	H	1	C≡CH
B-411	Het-7	NHCH <sub>2</sub>	H	1	cyclopropyl
B-412	Het-7	NHCH <sub>2</sub>	H	1	cyclohexyl
B-413	Het-7	NHCH <sub>2</sub>	H	1	Ph
B-414	Het-7	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-415	Het-7	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-416	Het-7	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-417	Het-7	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-418	Het-7	NHCH <sub>2</sub>	H	1	3-pyridyl
B-419	Het-7	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-420	Het-7	NHCH <sub>2</sub>	H	1	3-quinolyl
B-421	Het-8	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-422	Het-8	NHCH <sub>2</sub>	H	1	C≡CH
B-423	Het-8	NHCH <sub>2</sub>	H	1	cyclopropyl
B-424	Het-8	NHCH <sub>2</sub>	H	1	cyclohexyl
B-425	Het-8	NHCH <sub>2</sub>	H	1	Ph
B-426	Het-8	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-427	Het-8	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-428	Het-8	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-429	Het-8	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-430	Het-8	NHCH <sub>2</sub>	H	1	3-pyridyl
B-431	Het-8	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-432	Het-8	NHCH <sub>2</sub>	H	1	3-quinolyl
B-433	Het-9	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-434	Het-9	NHCH <sub>2</sub>	H	1	C≡CH

B-435	Het-9	NHCH <sub>2</sub>	H	1	cyclopropyl
B-436	Het-9	NHCH <sub>2</sub>	H	1	cyclohexyl
B-437	Het-9	NHCH <sub>2</sub>	H	1	Ph
B-438	Het-9	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-439	Het-9	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-440	Het-9	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-441	Het-9	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-442	Het-9	NHCH <sub>2</sub>	H	1	3-pyridyl
B-443	Het-9	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-444	Het-9	NHCH <sub>2</sub>	H	1	3-quinolyl
B-445	Het-10	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-446	Het-10	NHCH <sub>2</sub>	H	1	C≡CH
B-447	Het-10	NHCH <sub>2</sub>	H	1	cyclopropyl
B-448	Het-10	NHCH <sub>2</sub>	H	1	cyclohexyl
B-449	Het-10	NHCH <sub>2</sub>	H	1	Ph
B-450	Het-10	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-451	Het-10	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-452	Het-10	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-453	Het-10	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-454	Het-10	NHCH <sub>2</sub>	H	1	3-pyridyl
B-455	Het-10	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-456	Het-10	NHCH <sub>2</sub>	H	1	3-quinolyl
B-457	Het-11	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-458	Het-11	NHCH <sub>2</sub>	H	1	C≡CH
B-459	Het-11	NHCH <sub>2</sub>	H	1	cyclopropyl
B-460	Het-11	NHCH <sub>2</sub>	H	1	cyclohexyl
B-461	Het-11	NHCH <sub>2</sub>	H	1	Ph
B-462	Het-11	NHCH <sub>2</sub>	H	1	Ph(p-F)
B-463	Het-11	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
B-464	Het-11	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
B-465	Het-11	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
B-466	Het-11	NHCH <sub>2</sub>	H	1	3-pyridyl
B-467	Het-11	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
B-468	Het-11	NHCH <sub>2</sub>	H	1	3-quinolyl
B-469	Het-12	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
B-470	Het-12	NHCH <sub>2</sub>	H	1	C≡CH
B-471	Het-12	NHCH <sub>2</sub>	H	1	cyclopropyl

NOT FURNISHED UPON FILING

NO PRESENTADO(A) EN EL MOMENTO DE LA PRESENTACIÓN

NON SOUMIS(E) AU MOMENT DU DÉPÔT

NOT FURNISHED UPON FILING

NO PRESENTADO(A) EN EL MOMENTO DE LA PRESENTACIÓN

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NON SOUMIS(E) AU MOMENT DU DÉPÔT

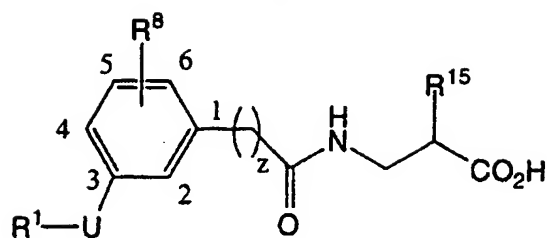


NOT FURNISHED UPON FILING

NO PRESENTADO(A) EN EL MOMENTO DE LA PRESENTACIÓN

NON SOUMIS(E) AU MOMENT DU DÉPÔT

Table 3



5

Ex.No.	R <sup>1</sup>	U	R <sup>8</sup>	z	R <sup>15</sup>	MS
C-1	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et	
C-2	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph	
C-3	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr	
C-4	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr	
C-5	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu	
C-6	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu	
C-7	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>	
C-8	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	485.0
C-9	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>o</i> -CH <sub>3</sub> )	
C-10	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>m</i> -CH <sub>3</sub> )	
C-11	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>p</i> -CH <sub>3</sub> )	
C-12	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>o</i> -Cl)	
C-13	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>m</i> -Cl)	
C-14	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>p</i> -Cl)	
C-15	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>m</i> -F)	
C-16	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>p</i> -F)	
C-17	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>o</i> -F)	
C-18	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>m</i> -Br)	
C-19	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>p</i> -Br)	
C-20	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>o</i> -OCH <sub>3</sub> )	
C-21	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>m</i> -OCH <sub>3</sub> )	
C-22	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph ( <i>p</i> -OCH <sub>3</sub> )	
C-23	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	527.1
C-24	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
C-25	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
C-26	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	

C-27	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-28	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-29	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl]
C-30	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-31	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-32	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-33	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-34	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-35	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-36	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-37	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-38	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-39	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-40	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-41	Het-1	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-42	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-43	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-44	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
C-45	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
C-46	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
C-47	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
C-48	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-49	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
C-50	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-51	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
C-52	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
C-53	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
C-54	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
C-55	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
C-56	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
C-57	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-58	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-59	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-60	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-61	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-62	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)

C-63	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-64	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-65	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-66	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-67	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-68	Het-1	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-69	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-70	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-71	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-72	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-73	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-74	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-75	Het-1	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
C-76	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-77	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-78	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
C-79	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
C-80	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
C-81	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
C-82	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-83	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
C-84	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-85	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
C-86	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
C-87	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
C-88	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
C-89	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
C-90	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
C-91	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-92	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-93	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-94	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-95	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)]phenyl
C-96	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-97	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-98	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)

C-99	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-100	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-101	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-102	Het-1	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-103	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-104	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-105	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-106	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-107	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-108	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-109	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-110	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-111	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-112	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
C-113	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
C-114	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
C-115	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
C-116	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-117	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
C-118	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-119	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
C-120	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
C-121	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
C-122	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
C-123	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
C-124	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
C-125	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-126	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-127	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-128	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-129	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-130	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-131	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-132	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-133	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-134	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph

C-135	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-136	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-137	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-138	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-139	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-140	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-141	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-142	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-143	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-144	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-145	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -CH <sub>3</sub> )
C-146	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -CH <sub>3</sub> )
C-147	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -CH <sub>3</sub> )
C-148	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -Cl)
C-149	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -Cl)
C-150	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -Cl)
C-151	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -F)
C-152	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -F)
C-153	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -F)
C-154	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -Br)
C-155	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -Br)
C-156	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -OCH <sub>3</sub> )
C-157	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -OCH <sub>3</sub> )
C-158	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -OCH <sub>3</sub> )
C-159	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-160	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-161	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-162	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-163	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-164	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-165	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-166	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-167	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-168	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-169	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-170	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh

C-171	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-172	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-173	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-174	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-175	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-176	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-177	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-178	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-179	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-180	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
C-181	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
C-182	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
C-183	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
C-184	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-185	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
C-186	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-187	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
C-188	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
C-189	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
C-190	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
C-191	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
C-192	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
C-193	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-194	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-195	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-196	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-197	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-198	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-199	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-200	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-201	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-202	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-203	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-204	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-205	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-206	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph

C-207	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
C-208	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
C-209	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
C-210	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
C-211	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>	
C-212	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
C-213	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )	
C-214	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )	
C-215	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )	
C-216	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)	
C-217	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)	
C-218	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
C-219	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)	
C-220	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
C-221	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)	
C-222	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)	
C-223	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)	
C-224	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )	
C-225	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )	
C-226	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )	
C-227	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	528.1
C-228	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
C-229	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
C-230	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	
C-231	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
C-232	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
C-233	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]	
C-234	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)	
C-235	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-napthyl)	
C-236	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph	
C-237	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph	
C-238	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh	
C-239	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et	
C-240	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph	
C-241	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
C-242	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	



C-243	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-244	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-245	Het-2	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-246	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-247	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -CH <sub>3</sub> )
C-248	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -CH <sub>3</sub> )
C-249	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -CH <sub>3</sub> )
C-250	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -Cl)
C-251	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -Cl)
C-252	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -Cl)
C-253	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -F)
C-254	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -F)
C-255	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -F)
C-256	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -Br)
C-257	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -Br)
C-258	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>o</i> -OCH <sub>3</sub> )
C-259	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>m</i> -OCH <sub>3</sub> )
C-260	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph( <i>p</i> -OCH <sub>3</sub> )
C-261	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-262	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-263	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-264	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-265	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (4-(2,6-dimethylphenyl)phenyl)
C-266	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-267	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-268	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-269	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-270	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-271	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-272	Het-2	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-273	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-274	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-275	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-276	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-277	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-278	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu

C-279	Het-2	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-280	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-281	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-282	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
C-283	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
C-284	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
C-285	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
C-286	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-287	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
C-288	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-289	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
C-290	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
C-291	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
C-292	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
C-293	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
C-294	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
C-295	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-296	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-297	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-298	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-299	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-300	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-301	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-302	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-303	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-304	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-305	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-306	Het-2	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-307	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-308	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-309	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-310	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-311	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-312	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-313	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -C <sub>5</sub> H <sub>11</sub>
C-314	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph

C-315	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-316	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )
C-317	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-CH <sub>3</sub> )
C-318	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-Cl)
C-319	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Cl)
C-320	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-321	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-F)
C-322	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-323	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-F)
C-324	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-Br)
C-325	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)
C-326	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )
C-327	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )
C-328	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )
C-329	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-330	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-331	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-332	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-333	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-334	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-335	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-336	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-337	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-338	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-339	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-340	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-341	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-342	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-343	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-344	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-345	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-346	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-347	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
C-348	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-349	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-CH <sub>3</sub> )
C-350	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-CH <sub>3</sub> )

C-351	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
C-352	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)
C-353	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
C-354	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-355	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
C-356	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-357	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
C-358	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
C-359	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)
C-360	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-OCH <sub>3</sub> )
C-361	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-OCH <sub>3</sub> )
C-362	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-OCH <sub>3</sub> )
C-363	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-364	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-365	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-366	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-367	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-368	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-369	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-370	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-371	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-372	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-373	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-374	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-375	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-376	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-377	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-378	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-379	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-380	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-381	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
C-382	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-383	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-CH <sub>3</sub> )
C-384	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-CH <sub>3</sub> )
C-385	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
C-386	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)

C-387	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
C-388	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-389	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
C-390	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-391	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
C-392	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
C-393	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)
C-394	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-OCH <sub>3</sub> )
C-395	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-OCH <sub>3</sub> )
C-396	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-OCH <sub>3</sub> )
C-397	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-398	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-399	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-400	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-401	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-402	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-403	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-404	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-405	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-406	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-407	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph
C-408	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh
C-409	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-410	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-411	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-412	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-413	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-414	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-415	Het-3	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
C-416	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-417	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-CH <sub>3</sub> )
C-418	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-CH <sub>3</sub> )
C-419	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
C-420	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)
C-421	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
C-422	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)

C-423	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
C-424	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-425	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
C-426	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)
C-427	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Br)
C-428	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-OCH <sub>3</sub> )
C-429	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-OCH <sub>3</sub> )
C-430	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-OCH <sub>3</sub> )
C-431	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-432	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-433	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-434	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)
C-435	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-436	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-437	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-438	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-439	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)
C-440	Het-3	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph
C-441	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> Et
C-442	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> CH <sub>2</sub> Ph
C-443	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-444	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-445	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-446	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-447	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-C <sub>5</sub> H <sub>11</sub>
C-448	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-449	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-CH <sub>3</sub> )
C-450	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-CH <sub>3</sub> )
C-451	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-CH <sub>3</sub> )
C-452	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-Cl)
C-453	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Cl)
C-454	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-455	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-F)
C-456	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-457	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (o-F)
C-458	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (m-Br)

C-459	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Br)	
C-460	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(o-OCH <sub>3</sub> )	
C-461	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(m-OCH <sub>3</sub> )	
C-462	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-OCH <sub>3</sub> )	
C-463	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	
C-464	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
C-465	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
C-466	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-chloro-6-methylphenyl)	
C-467	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
C-468	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
C-469	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
C-470	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
C-471	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2-naphthyl)	
C-472	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> CH <sub>2</sub> Ph	
C-473	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHCH <sub>2</sub> Ph	
C-474	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> NHPh	
C-475	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
C-476	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
C-477	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
C-478	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
C-479	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	
C-480	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)	
C-481	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)	
C-482	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)	528.1
C-483	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)	
C-484	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)	
C-485	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]	
C-486	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)	
C-487	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]	
C-488	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)	
C-489	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr	
C-490	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr	
C-491	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu	
C-492	Het-4	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu	
C-493	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph	

C-494	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-495	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-496	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-497	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-498	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-499	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-500	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-501	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-502	Het-4	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-503	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-504	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-505	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-506	Het-4	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-507	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-508	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-509	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-510	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-511	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-512	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-513	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-514	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-515	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-516	Het-4	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-517	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-518	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-519	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-520	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-521	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-522	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-523	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-524	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-525	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-526	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-527	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}



C-528	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-529	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-530	Het-4	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-531	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-532	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-533	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-534	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-535	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-536	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-537	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-538	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-539	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-540	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-541	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-542	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-543	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-544	Het-4	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-545	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-546	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-547	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-548	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-549	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-550	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-551	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-552	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-553	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-554	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-555	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-556	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-557	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-558	Het-4	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-559	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-560	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-561	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-562	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu

C-563	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-564	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-565	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-566	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-567	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-568	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-569	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-570	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-571	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-572	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-573	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-574	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-575	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-576	Het-5	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-577	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-578	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-579	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-580	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-581	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-582	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-583	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-584	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-585	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-586	Het-5	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-587	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-588	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-589	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-590	Het-5	OCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-591	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-592	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-593	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-594	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-595	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-596	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)

C-597	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-598	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-599	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-600	Het-5	OCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-601	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-602	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-603	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-604	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-605	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-606	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-607	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-608	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-609	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-610	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-611	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-612	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-613	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-614	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-615	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-616	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-617	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-618	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-619	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-620	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-621	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-622	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-623	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-624	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-625	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-626	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-627	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-628	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-629	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-630	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr

C-631	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-632	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-633	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-634	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-635	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-636	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-637	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-638	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-639	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-640	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-641	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-642	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-643	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-644	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-645	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-646	Het-6	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-647	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-648	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-649	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-650	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-651	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-652	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-653	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-654	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-655	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-656	Het-6	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-657	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-658	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-659	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-660	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-661	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-662	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-663	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-664	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)

C-665	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-666	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-667	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-668	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-669	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-670	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-671	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-672	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-673	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-674	Het-7	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-675	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-676	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-677	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-678	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-679	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-680	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-681	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-682	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-683	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-684	Het-7	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-685	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-686	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-687	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-688	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-689	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-690	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-691	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-692	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-693	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-694	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-695	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-696	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-697	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-698	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)

C-699	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-700	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-701	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-702	Het-8	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-703	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-704	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-705	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-706	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-707	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-708	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-709	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-710	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-711	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-712	Het-8	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-713	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-714	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-715	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-716	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-717	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-718	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-719	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-720	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-721	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-722	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-723	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-724	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-725	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-726	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-727	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-728	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-729	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-730	Het-9	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-731	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-732	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-733	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)

C-734	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-735	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-736	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-737	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-738	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-739	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-740	Het-9	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-741	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-742	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-743	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-744	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-745	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-746	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-747	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-748	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-749	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-750	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-751	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-752	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-753	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-754	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-755	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-756	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-757	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-758	Het-10	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-759	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-760	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-761	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-762	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-763	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-764	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-765	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-766	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)

C-767	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-768	Het-10	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-769	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-770	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-771	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-772	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-773	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-774	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-775	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-776	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-777	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-778	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-779	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-780	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-781	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-782	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-783	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-784	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-785	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-786	Het-11	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-787	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-788	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-789	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-790	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-791	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-792	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-793	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-794	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-795	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-796	Het-11	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-797	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-798	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-799	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-800	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-801	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph



C-802	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-803	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-804	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-805	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-806	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-807	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-808	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-809	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-810	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-811	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-812	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-813	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-814	Het-12	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-815	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-816	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-817	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-818	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-819	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-820	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-821	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-822	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-823	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-824	Het-12	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-napthyl)
C-825	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-826	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-827	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-828	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-829	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-830	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-831	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-832	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-833	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-834	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-835	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]

C-836	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-837	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-838	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-839	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-840	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-841	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-842	Het-13	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-843	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-844	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-845	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-846	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-847	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-848	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-849	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-850	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-851	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-852	Het-13	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-853	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-854	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-855	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-856	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-857	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-858	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-859	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-860	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-861	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-862	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-863	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-864	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-865	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-866	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-867	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-868	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-869	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-870	Het-14	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu

C-871	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-872	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-873	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-874	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-875	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-876	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-877	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-878	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-879	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-880	Het-14	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-881	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-882	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-883	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-884	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-885	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-886	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-887	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-888	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-889	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-890	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-891	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-892	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-893	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-894	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-895	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-896	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-897	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-898	Het-15	NHCH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-899	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-900	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-901	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-902	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-903	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-904	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)

C-905	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-906	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-907	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-908	Het-15	NHCH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-909	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-910	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-911	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-912	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-913	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-914	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-915	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-916	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-917	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-918	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-919	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-920	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-921	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-922	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-923	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-924	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-925	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-926	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-927	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-928	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-929	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-930	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-931	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-932	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-933	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-934	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-935	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-936	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-937	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-938	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr

C-939	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-940	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-941	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-942	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-943	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-944	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-945	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-946	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-947	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-948	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-949	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-950	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-951	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-952	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-953	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-954	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-955	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-956	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-957	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-958	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-959	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-960	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-961	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-962	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-963	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-964	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-965	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-966	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-967	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-968	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-969	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-970	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-971	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-972	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)

C-973	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-974	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-975	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-976	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-977	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-978	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-979	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-980	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-981	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-982	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-983	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-984	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-985	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-986	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-987	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-988	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-989	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-990	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-991	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-992	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-993	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-994	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-995	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-996	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-997	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-998	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-999	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1000	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1001	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1002	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1003	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1004	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1005	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1006	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)

C-1007	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-1008	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-1009	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-1010	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-1011	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1012	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-1013	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-1014	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1015	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1016	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1017	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1018	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1019	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1020	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1021	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-1022	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-1023	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-1024	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-1025	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1026	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-1027	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-1028	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1029	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1030	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1031	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1032	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1033	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1034	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1035	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Pr
C-1036	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Pr
C-1037	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-1038	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-1039	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1040	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-1041	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)

C-1042	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1043	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1044	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1045	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1046	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1047	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1048	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1049	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1050	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1051	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1052	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1053	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1054	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1055	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1056	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1057	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1058	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1059	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1060	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1061	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1062	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1063	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1064	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1065	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1066	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1067	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1068	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1069	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1070	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1071	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1072	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1073	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1074	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)



C-1075	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1076	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1077	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1078	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1079	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1080	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1081	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1082	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1083	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1084	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1085	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1086	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1087	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)]phenyl
C-1088	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1089	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1090	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1091	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1092	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1093	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1094	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1095	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1096	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1097	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1098	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1099	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1100	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1101	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)]phenyl
C-1102	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1103	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1104	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1105	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1106	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1107	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1108	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1109	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph

C-1110	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1111	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1112	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1113	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1114	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1115	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1116	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1117	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1118	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1119	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Pr
C-1120	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Pr
C-1121	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Bu
C-1122	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Bu
C-1123	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph
C-1124	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-Cl)
C-1125	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-F)
C-1126	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1127	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1128	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1129	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1130	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1131	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1132	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (1-naphthyl)
C-1133	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Pr
C-1134	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Pr
C-1135	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Bu
C-1136	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Bu
C-1137	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph
C-1138	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1139	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-F)
C-1140	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1141	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1142	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1143	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]

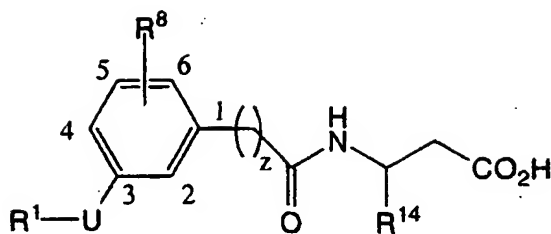
C-1144	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1145	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1146	Het-1	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (1-napthyl)
C-1147	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Pr
C-1148	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Pr
C-1149	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Bu
C-1150	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Bu
C-1151	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph
C-1152	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1153	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-F)
C-1154	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1155	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1156	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1157	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1158	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1159	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1160	Het-1	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (1-napthyl)
C-1161	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Pr
C-1162	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Pr
C-1163	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -n-Bu
C-1164	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHCO <sub>2</sub> -i-Bu
C-1165	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph
C-1166	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-Cl)
C-1167	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> Ph(p-F)
C-1168	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1169	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1170	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1171	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1172	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1173	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1174	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	NHSO <sub>2</sub> (1-napthyl)
C-1175	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Pr
C-1176	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Pr
C-1177	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -n-Bu
C-1178	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHCO <sub>2</sub> -i-Bu

C-1179	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph
C-1180	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1181	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> Ph(p-F)
C-1182	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1183	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1184	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1185	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-1186	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1187	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-1188	Het-2	CH <sub>2</sub> CH <sub>2</sub>	3-Me	0	NHSO <sub>2</sub> (1-napthyl)
C-1189	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Pr
C-1190	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Pr
C-1191	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -n-Bu
C-1192	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHCO <sub>2</sub> -i-Bu
C-1193	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph
C-1194	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1195	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> Ph(p-F)
C-1196	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1197	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1198	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1199	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> {4-(2,6-dimethylphenyl)phenyl}
C-1200	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1201	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> {4-(3,5-dimethyl)isoxazolyl}
C-1202	Het-2	CH <sub>2</sub> CH <sub>2</sub>	2-Cl	0	NHSO <sub>2</sub> (1-napthyl)
C-1203	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1204	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1205	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1206	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1207	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1208	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1209	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1210	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1211	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1212	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)

C-1213	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-1214	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1215	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1216	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1217	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1218	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1219	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1220	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1221	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1222	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1223	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1224	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1225	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1226	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1227	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-1228	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1229	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1230	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1231	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1232	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr
C-1233	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Bu
C-1234	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Bu
C-1235	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1236	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-Cl)
C-1237	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph(p-F)
C-1238	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1239	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1240	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1241	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl
C-1242	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1243	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethyl)isoxazolyl]
C-1244	Het-21	CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)
C-1245	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -n-Pr
C-1246	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> -i-Pr

C-1247	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>n</i> -Bu
C-1248	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHCO <sub>2</sub> - <i>i</i> -Bu
C-1249	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph
C-1250	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-Cl)
C-1251	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> Ph (p-F)
C-1252	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trimethylphenyl)
C-1253	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,4,6-trichlorophenyl)
C-1254	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (2,6-dichlorophenyl)
C-1255	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(2,6-dimethylphenyl)phenyl]
C-1256	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> (4-Ph)
C-1257	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> [4-(3,5-dimethylisoxazolyl)]
C-1258	Het-21	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	NHSO <sub>2</sub> (1-naphthyl)

Table 4



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Ex.No.	R <sup>1</sup>	U	R <sup>8</sup>	z	R <sup>14</sup>	MS
D-1	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>	
D-2	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH	
D-3	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl	
D-4	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl	
D-5	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph	
D-6	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)	
D-7	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)	
D-8	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph	
D-9	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph	
D-10	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl	
D-11	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl	
D-12	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl	
D-13	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>	
D-14	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH	
D-15	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl	
D-16	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl	
D-17	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph	
D-18	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)	
D-19	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)	
D-20	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph	
D-21	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph	
D-22	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl	
D-23	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl	
D-24	Het-1	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl	
D-25	Het-1	NHCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>	
D-26	Het-1	NHCH <sub>2</sub>	H	0	C≡CH	
D-27	Het-1	NHCH <sub>2</sub>	H	0	cyclopropyl	

D-28	Het-1	NHCH <sub>2</sub>	H	0	cyclohexyl
D-29	Het-1	NHCH <sub>2</sub>	H	0	Ph
D-30	Het-1	NHCH <sub>2</sub>	H	0	Ph(p-F)
D-31	Het-1	NHCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-32	Het-1	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-33	Het-1	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-34	Het-1	NHCH <sub>2</sub>	H	0	3-pyridyl
D-35	Het-1	NHCH <sub>2</sub>	H	0	5-pyrimidinyl
D-36	Het-1	NHCH <sub>2</sub>	H	0	3-quinolyl
D-37	Het-1	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-38	Het-1	NHCH <sub>2</sub>	H	1	C≡CH
D-39	Het-1	NHCH <sub>2</sub>	H	1	cyclopropyl
D-40	Het-1	NHCH <sub>2</sub>	H	1	cyclohexyl
D-41	Het-1	NHCH <sub>2</sub>	H	1	Ph
D-42	Het-1	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-43	Het-1	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-44	Het-1	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-45	Het-1	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-46	Het-1	NHCH <sub>2</sub>	H	1	3-pyridyl
D-47	Het-1	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-48	Het-1	NHCH <sub>2</sub>	H	1	3-quinolyl
D-49	Het-1	OCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-50	Het-1	OCH <sub>2</sub>	H	0	C≡CH
D-51	Het-1	OCH <sub>2</sub>	H	0	cyclopropyl
D-52	Het-1	OCH <sub>2</sub>	H	0	cyclohexyl
D-53	Het-1	OCH <sub>2</sub>	H	0	Ph
D-54	Het-1	OCH <sub>2</sub>	H	0	Ph(p-F)
D-55	Het-1	OCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-56	Het-1	OCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-57	Het-1	OCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-58	Het-1	OCH <sub>2</sub>	H	0	3-pyridyl
D-59	Het-1	OCH <sub>2</sub>	H	0	5-pyrimidinyl
D-60	Het-1	OCH <sub>2</sub>	H	0	3-quinolyl
D-61	Het-1	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-62	Het-1	OCH <sub>2</sub>	H	1	C≡CH
D-63	Het-1	OCH <sub>2</sub>	H	1	cyclopropyl
D-64	Het-1	OCH <sub>2</sub>	H	1	cyclohexyl



D-65	Het-1	OCH <sub>2</sub>	H	1	Ph
D-66	Het-1	OCH <sub>2</sub>	H	1	Ph(p-F)
D-67	Het-1	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-68	Het-1	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-69	Het-1	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-70	Het-1	OCH <sub>2</sub>	H	1	3-pyridyl
D-71	Het-1	OCH <sub>2</sub>	H	1	5-pyrimidinyl
D-72	Het-1	OCH <sub>2</sub>	H	1	3-quinolyl
D-73	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-74	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-75	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-76	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-77	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-78	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-79	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-80	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-81	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-82	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-83	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-84	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-85	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-86	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-87	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-88	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-89	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-90	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-91	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-92	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-93	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-94	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-95	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-96	Het-1	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-97	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-98	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-99	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-100	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-101	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph

D-102	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-103	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-104	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-105	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-106	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-107	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-108	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-109	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-110	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-111	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-112	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-113	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-114	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-115	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-116	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-117	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-118	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-119	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-120	Het-1	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-121	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-122	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-123	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-124	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-125	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-126	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-127	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-128	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-129	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-130	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-131	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-132	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-133	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-134	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-135	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-136	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-137	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-138	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)

D-139	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-140	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-141	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-142	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-143	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-144	Het-1	OCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-145	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-146	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-147	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-148	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-149	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-150	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-151	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-152	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-153	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-154	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-155	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-156	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-157	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-158	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-159	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-160	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-161	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-162	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-163	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-164	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-165	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-166	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-167	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-168	Het-2	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-169	Het-2	NHCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-170	Het-2	NHCH <sub>2</sub>	H	0	C≡CH
D-171	Het-2	NHCH <sub>2</sub>	H	0	cyclopropyl
D-172	Het-2	NHCH <sub>2</sub>	H	0	cyclohexyl
D-173	Het-2	NHCH <sub>2</sub>	H	0	Ph
D-174	Het-2	NHCH <sub>2</sub>	H	0	Ph(p-F)
D-175	Het-2	NHCH <sub>2</sub>	H	0	Ph (3,5-dichloro)

D-176	Het-2	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-177	Het-2	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-178	Het-2	NHCH <sub>2</sub>	H	0	3-pyridyl
D-179	Het-2	NHCH <sub>2</sub>	H	0	5-pyrimidinyl
D-180	Het-2	NHCH <sub>2</sub>	H	0	3-quinolyl
D-181	Het-2	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-182	Het-2	NHCH <sub>2</sub>	H	1	C≡CH
D-183	Het-2	NHCH <sub>2</sub>	H	1	cyclopropyl
D-184	Het-2	NHCH <sub>2</sub>	H	1	cyclohexyl
D-185	Het-2	NHCH <sub>2</sub>	H	1	Ph
D-186	Het-2	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-187	Het-2	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-188	Het-2	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-189	Het-2	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-190	Het-2	NHCH <sub>2</sub>	H	1	3-pyridyl
D-191	Het-2	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-192	Het-2	NHCH <sub>2</sub>	H	1	3-quinolyl
D-193	Het-2	OCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-194	Het-2	OCH <sub>2</sub>	H	0	C≡CH
D-195	Het-2	OCH <sub>2</sub>	H	0	cyclopropyl
D-196	Het-2	OCH <sub>2</sub>	H	0	cyclohexyl
D-197	Het-2	OCH <sub>2</sub>	H	0	Ph
D-198	Het-2	OCH <sub>2</sub>	H	0	Ph(p-F)
D-199	Het-2	OCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-200	Het-2	OCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-201	Het-2	OCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-202	Het-2	OCH <sub>2</sub>	H	0	3-pyridyl
D-203	Het-2	OCH <sub>2</sub>	H	0	5-pyrimidinyl
D-204	Het-2	OCH <sub>2</sub>	H	0	3-quinolyl
D-205	Het-2	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-206	Het-2	OCH <sub>2</sub>	H	1	C≡CH
D-207	Het-2	OCH <sub>2</sub>	H	1	cyclopropyl
D-208	Het-2	OCH <sub>2</sub>	H	1	cyclohexyl
D-209	Het-2	OCH <sub>2</sub>	H	1	Ph
D-210	Het-2	OCH <sub>2</sub>	H	1	Ph(p-F)
D-211	Het-2	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-212	Het-2	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph

D-213	Het-2	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-214	Het-2	OCH <sub>2</sub>	H	1	3-pyridyl
D-215	Het-2	OCH <sub>2</sub>	H	1	5-pyrimidinyl
D-216	Het-2	OCH <sub>2</sub>	H	1	3-quinolyl
D-217	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-218	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-219	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-220	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-221	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-222	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-223	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-224	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-225	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-226	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-227	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-228	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-229	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-230	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-231	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-232	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-233	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-234	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-235	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-236	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-237	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-238	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-239	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-240	Het-2	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-241	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-242	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-243	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-244	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-245	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-246	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-247	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-248	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-249	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph

D-250	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-251	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-252	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-253	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-254	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-255	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-256	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-257	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-258	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-259	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-260	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-261	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-262	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-263	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-264	Het-2	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-265	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-266	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-267	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-268	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-269	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-270	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-271	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-272	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-273	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-274	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-275	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-276	Het-2	OCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-277	Het-3	NHCH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-278	Het-3	NHCH <sub>2</sub>	H	0	C≡CH
D-279	Het-3	NHCH <sub>2</sub>	H	0	cyclopropyl
D-280	Het-3	NHCH <sub>2</sub>	H	0	cyclohexyl
D-281	Het-3	NHCH <sub>2</sub>	H	0	Ph
D-282	Het-3	NHCH <sub>2</sub>	H	0	Ph(p-F)
D-283	Het-3	NHCH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-284	Het-3	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-285	Het-3	NHCH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-286	Het-3	NHCH <sub>2</sub>	H	0	3-pyridyl

D-287	Het-3	NHCH <sub>2</sub>	H	0	5-pyrimidinyl
D-288	Het-3	NHCH <sub>2</sub>	H	0	3-quinolyl
D-289	Het-3	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-290	Het-3	NHCH <sub>2</sub>	H	1	C≡CH
D-291	Het-3	NHCH <sub>2</sub>	H	1	cyclopropyl
D-292	Het-3	NHCH <sub>2</sub>	H	1	cyclohexyl
D-293	Het-3	NHCH <sub>2</sub>	H	1	Ph
D-294	Het-3	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-295	Het-3	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-296	Het-3	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-297	Het-3	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-298	Het-3	NHCH <sub>2</sub>	H	1	3-pyridyl
D-299	Het-3	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-300	Het-3	NHCH <sub>2</sub>	H	1	3-quinolyl
D-301	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH=CH <sub>2</sub>
D-302	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	C≡CH
D-303	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclopropyl
D-304	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	cyclohexyl
D-305	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph
D-306	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph(p-F)
D-307	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	Ph (3,5-dichloro)
D-308	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> Ph
D-309	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	CH <sub>2</sub> CH <sub>2</sub> Ph
D-310	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-pyridyl
D-311	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	5-pyrimidinyl
D-312	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	0	3-quinolyl
D-313	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-314	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-315	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-316	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-317	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-318	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-319	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-320	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-321	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-322	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-323	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl

D-324	Het-3	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-325	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-326	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-327	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-328	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-329	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-330	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-331	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-332	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-333	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-334	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-335	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-336	Het-4	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-337	Het-4	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-338	Het-4	NHCH <sub>2</sub>	H	1	C≡CH
D-339	Het-4	NHCH <sub>2</sub>	H	1	cyclopropyl
D-340	Het-4	NHCH <sub>2</sub>	H	1	cyclohexyl
D-341	Het-4	NHCH <sub>2</sub>	H	1	Ph
D-342	Het-4	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-343	Het-4	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-344	Het-4	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-345	Het-4	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-346	Het-4	NHCH <sub>2</sub>	H	1	3-pyridyl
D-347	Het-4	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-348	Het-4	NHCH <sub>2</sub>	H	1	3-quinolyl
D-349	Het-4	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-350	Het-4	OCH <sub>2</sub>	H	1	C≡CH
D-351	Het-4	OCH <sub>2</sub>	H	1	cyclopropyl
D-352	Het-4	OCH <sub>2</sub>	H	1	cyclohexyl
D-353	Het-4	OCH <sub>2</sub>	H	1	Ph
D-354	Het-4	OCH <sub>2</sub>	H	1	Ph(p-F)
D-355	Het-4	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-356	Het-4	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-357	Het-4	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-358	Het-4	OCH <sub>2</sub>	H	1	3-pyridyl
D-359	Het-4	OCH <sub>2</sub>	H	1	5-pyrimidinyl
D-360	Het-4	OCH <sub>2</sub>	H	1	3-quinolyl



D-361	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-362	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-363	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-364	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-365	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-366	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-367	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-368	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-369	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-370	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-371	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-372	Het-5	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-373	Het-5	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-374	Het-5	NHCH <sub>2</sub>	H	1	C≡CH
D-375	Het-5	NHCH <sub>2</sub>	H	1	cyclopropyl
D-376	Het-5	NHCH <sub>2</sub>	H	1	cyclohexyl
D-377	Het-5	NHCH <sub>2</sub>	H	1	Ph
D-378	Het-5	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-379	Het-5	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-380	Het-5	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-381	Het-5	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-382	Het-5	NHCH <sub>2</sub>	H	1	3-pyridyl
D-383	Het-5	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-384	Het-5	NHCH <sub>2</sub>	H	1	3-quinolyl
D-385	Het-5	OCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-386	Het-5	OCH <sub>2</sub>	H	1	C≡CH
D-387	Het-5	OCH <sub>2</sub>	H	1	cyclopropyl
D-388	Het-5	OCH <sub>2</sub>	H	1	cyclohexyl
D-389	Het-5	OCH <sub>2</sub>	H	1	Ph
D-390	Het-5	OCH <sub>2</sub>	H	1	Ph(p-F)
D-391	Het-5	OCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-392	Het-5	OCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-393	Het-5	OCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-394	Het-5	OCH <sub>2</sub>	H	1	3-pyridyl
D-395	Het-5	OCH <sub>2</sub>	H	1	5-pyrimidinyl
D-396	Het-5	OCH <sub>2</sub>	H	1	3-quinolyl
D-397	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>

D-398	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-399	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-400	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-401	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-402	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-403	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-404	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-405	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-406	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-407	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-408	Het-5	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-409	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-410	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-411	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-412	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-413	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-414	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-415	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-416	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-417	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-418	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-419	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-420	Het-5	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-421	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-422	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-423	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-424	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-425	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-426	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-427	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-428	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-429	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-430	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-431	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-432	Het-5	OCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-433	Het-6	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-434	Het-6	NHCH <sub>2</sub>	H	1	C≡CH

D-435	Het-6	NHCH <sub>2</sub>	H	1	cyclopropyl
D-436	Het-6	NHCH <sub>2</sub>	H	1	cyclohexyl
D-437	Het-6	NHCH <sub>2</sub>	H	1	Ph
D-438	Het-6	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-439	Het-6	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-440	Het-6	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-441	Het-6	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-442	Het-6	NHCH <sub>2</sub>	H	1	3-pyridyl
D-443	Het-6	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-444	Het-6	NHCH <sub>2</sub>	H	1	3-quinolyl
D-445	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-446	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-447	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-448	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-449	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-450	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-451	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-452	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-453	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-454	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-455	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-456	Het-6	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-457	Het-7	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-458	Het-7	NHCH <sub>2</sub>	H	1	C≡CH
D-459	Het-7	NHCH <sub>2</sub>	H	1	cyclopropyl
D-460	Het-7	NHCH <sub>2</sub>	H	1	cyclohexyl
D-461	Het-7	NHCH <sub>2</sub>	H	1	Ph
D-462	Het-7	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-463	Het-7	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-464	Het-7	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-465	Het-7	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-466	Het-7	NHCH <sub>2</sub>	H	1	3-pyridyl
D-467	Het-7	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-468	Het-7	NHCH <sub>2</sub>	H	1	3-quinolyl
D-469	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-470	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-471	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl

D-472	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-473	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-474	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-475	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-476	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-477	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-478	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-479	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-480	Het-7	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-481	Het-8	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-482	Het-8	NHCH <sub>2</sub>	H	1	C≡CH
D-483	Het-8	NHCH <sub>2</sub>	H	1	cyclopropyl
D-484	Het-8	NHCH <sub>2</sub>	H	1	cyclohexyl
D-485	Het-8	NHCH <sub>2</sub>	H	1	Ph
D-486	Het-8	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-487	Het-8	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-488	Het-8	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-489	Het-8	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-490	Het-8	NHCH <sub>2</sub>	H	1	3-pyridyl
D-491	Het-8	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-492	Het-8	NHCH <sub>2</sub>	H	1	3-quinolyl
D-493	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-494	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-495	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-496	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-497	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-498	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-499	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-500	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-501	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-502	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-503	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-504	Het-8	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-505	Het-9	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-506	Het-9	NHCH <sub>2</sub>	H	1	C≡CH
D-507	Het-9	NHCH <sub>2</sub>	H	1	cyclopropyl
D-508	Het-9	NHCH <sub>2</sub>	H	1	cyclohexyl

D-509	Het-9	NHCH <sub>2</sub>	H	1	Ph
D-510	Het-9	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-511	Het-9	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-512	Het-9	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-513	Het-9	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-514	Het-9	NHCH <sub>2</sub>	H	1	3-pyridyl
D-515	Het-9	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-516	Het-9	NHCH <sub>2</sub>	H	1	3-quinolyl
D-517	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-518	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-519	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-520	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-521	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-522	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-523	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-524	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-525	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-526	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-527	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-528	Het-9	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-529	Het-10	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-530	Het-10	NHCH <sub>2</sub>	H	1	C≡CH
D-531	Het-10	NHCH <sub>2</sub>	H	1	cyclopropyl
D-532	Het-10	NHCH <sub>2</sub>	H	1	cyclohexyl
D-533	Het-10	NHCH <sub>2</sub>	H	1	Ph
D-534	Het-10	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-535	Het-10	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-536	Het-10	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-537	Het-10	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-538	Het-10	NHCH <sub>2</sub>	H	1	3-pyridyl
D-539	Het-10	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-540	Het-10	NHCH <sub>2</sub>	H	1	3-quinolyl
D-541	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-542	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-543	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-544	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-545	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph

D-546	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-547	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-548	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-549	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-550	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-551	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-552	Het-10	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-553	Het-11	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-554	Het-11	NHCH <sub>2</sub>	H	1	C≡CH
D-555	Het-11	NHCH <sub>2</sub>	H	1	cyclopropyl
D-556	Het-11	NHCH <sub>2</sub>	H	1	cyclohexyl
D-557	Het-11	NHCH <sub>2</sub>	H	1	Ph
D-558	Het-11	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-559	Het-11	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-560	Het-11	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-561	Het-11	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-562	Het-11	NHCH <sub>2</sub>	H	1	3-pyridyl
D-563	Het-11	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-564	Het-11	NHCH <sub>2</sub>	H	1	3-quinolyl
D-565	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-566	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-567	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-568	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-569	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-570	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-571	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-572	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-573	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-574	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-575	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-576	Het-11	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-577	Het-12	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-578	Het-12	NHCH <sub>2</sub>	H	1	C≡CH
D-579	Het-12	NHCH <sub>2</sub>	H	1	cyclopropyl
D-580	Het-12	NHCH <sub>2</sub>	H	1	cyclohexyl
D-581	Het-12	NHCH <sub>2</sub>	H	1	Ph
D-582	Het-12	NHCH <sub>2</sub>	H	1	Ph(p-F)

D-583	Het-12	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-584	Het-12	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-585	Het-12	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-586	Het-12	NHCH <sub>2</sub>	H	1	3-pyridyl
D-587	Het-12	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-588	Het-12	NHCH <sub>2</sub>	H	1	3-quinolyl
D-589	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-590	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-591	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-592	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-593	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-594	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-595	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-596	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-597	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-598	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-599	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-600	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-601	Het-13	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-602	Het-13	NHCH <sub>2</sub>	H	1	C≡CH
D-603	Het-13	NHCH <sub>2</sub>	H	1	cyclopropyl
D-604	Het-13	NHCH <sub>2</sub>	H	1	cyclohexyl
D-605	Het-13	NHCH <sub>2</sub>	H	1	Ph
D-606	Het-13	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-607	Het-13	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-608	Het-13	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-609	Het-13	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-610	Het-13	NHCH <sub>2</sub>	H	1	3-pyridyl
D-611	Het-13	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-612	Het-13	NHCH <sub>2</sub>	H	1	3-quinolyl
D-613	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-614	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-615	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-616	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-617	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-618	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-619	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)

D-620	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-621	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-622	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-623	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-624	Het-13	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-625	Het-14	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-626	Het-14	NHCH <sub>2</sub>	H	1	C≡CH
D-627	Het-14	NHCH <sub>2</sub>	H	1	cyclopropyl
D-628	Het-14	NHCH <sub>2</sub>	H	1	cyclohexyl
D-629	Het-14	NHCH <sub>2</sub>	H	1	Ph
D-630	Het-14	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-631	Het-14	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-632	Het-14	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-633	Het-14	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-634	Het-14	NHCH <sub>2</sub>	H	1	3-pyridyl
D-635	Het-14	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-636	Het-14	NHCH <sub>2</sub>	H	1	3-quinolyl
D-637	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-638	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-639	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-640	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-641	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-642	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-643	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-644	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-645	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-646	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-647	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-648	Het-14	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-649	Het-15	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-650	Het-15	NHCH <sub>2</sub>	H	1	C≡CH
D-651	Het-15	NHCH <sub>2</sub>	H	1	cyclopropyl
D-652	Het-15	NHCH <sub>2</sub>	H	1	cyclohexyl
D-653	Het-15	NHCH <sub>2</sub>	H	1	Ph
D-654	Het-15	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-655	Het-15	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-656	Het-15	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> Ph



D-657	Het-15	NHCH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-658	Het-15	NHCH <sub>2</sub>	H	1	3-pyridyl
D-659	Het-15	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-660	Het-15	NHCH <sub>2</sub>	H	1	3-quinolyl
D-661	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-662	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-663	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-664	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-665	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-666	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-667	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-668	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-669	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-670	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-671	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-672	Het-15	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-673	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-674	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-675	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-676	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-677	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-678	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-679	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-680	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-681	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-682	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-683	Het-8	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-684	Het-3	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-685	Het-3	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-686	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-687	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-688	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-689	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-690	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-691	Het-3	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-692	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-693	Het-3	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph

D-694	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-695	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-696	Het-8	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-697	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-698	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-699	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-700	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-701	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-702	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (p-F)
D-703	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-704	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-705	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-706	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-707	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-708	Het-16	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-709	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-710	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-711	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-712	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-713	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-714	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (p-F)
D-715	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-716	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-717	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-718	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-719	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-720	Het-16	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-721	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-722	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-723	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-724	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-725	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-726	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (p-F)
D-727	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-728	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-729	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-730	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl

D-731	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-732	Het-17	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-733	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-734	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-735	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-736	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-737	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-738	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-739	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-740	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-741	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-742	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-743	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-744	Het-17	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-745	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-746	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-747	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-748	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-749	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-750	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-751	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-752	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-753	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-754	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-755	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-756	Het-18	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-757	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-758	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-759	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-760	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-761	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-762	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-763	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-764	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-765	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-766	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-767	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl

D-768	Het-18	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-769	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-770	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-771	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-772	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-773	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-774	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-775	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-776	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-777	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-778	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-779	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-780	Het-13	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-781	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-782	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-783	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-784	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-785	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-786	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-787	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-788	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-789	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-790	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-791	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-792	Het-13	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-793	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-794	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-795	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-796	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-797	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-798	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-799	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-800	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-801	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-802	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-803	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-804	Het-19	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl

D-805	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-806	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-807	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-808	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-809	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-810	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-811	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-812	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-813	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-814	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-815	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-816	Het-19	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-817	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-818	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-819	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-820	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-821	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-822	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-823	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-824	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-825	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-826	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-827	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-828	Het-20	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-829	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-830	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-831	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-832	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-833	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-834	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-835	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-836	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-837	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-838	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-839	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-840	Het-20	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-841	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	CH=CH <sub>2</sub>

D-842	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	C≡CH
D-843	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	cyclopropyl
D-844	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	cyclohexyl
D-845	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	Ph
D-846	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	Ph(p-F)
D-847	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	Ph (3,5-dichloro)
D-848	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	CH <sub>2</sub> Ph
D-849	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-850	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	3-pyridyl
D-851	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	5-pyrimidinyl
D-852	Het-1	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	3-quinolyl
D-853	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	CH=CH <sub>2</sub>
D-854	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	C≡CH
D-855	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	cyclopropyl
D-856	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	cyclohexyl
D-857	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	Ph
D-858	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	Ph(p-F)
D-859	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	Ph (3,5-dichloro)
D-860	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	CH <sub>2</sub> Ph
D-861	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-862	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	3-pyridyl
D-863	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	5-pyrimidinyl
D-864	Het-1	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	3-quinolyl
D-865	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	CH=CH <sub>2</sub>
D-866	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	C≡CH
D-867	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	cyclopropyl
D-868	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	cyclohexyl
D-869	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	Ph
D-870	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	Ph(p-F)
D-871	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	Ph (3,5-dichloro)
D-872	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	CH <sub>2</sub> Ph

D-873	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-874	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	3-pyridyl
D-875	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	5-pyrimidinyl
D-876	Het-2	CH <sub>2</sub> CH <sub>2</sub>	4- OMe	1	3-quinolyl
D-877	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	CH=CH <sub>2</sub>
D-878	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	C≡CH
D-879	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	cyclopropyl
D-880	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	cyclohexyl
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D-882	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	Ph(p-F)
D-883	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	Ph (3,5-dichloro)
D-884	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	CH <sub>2</sub> Ph
D-885	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-886	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	3-pyridyl
D-887	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	5-pyrimidinyl
D-888	Het-2	CH <sub>2</sub> CH <sub>2</sub>	6- OMe	1	3-quinolyl
D-889	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-890	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-891	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-892	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-893	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-894	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-895	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-896	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-897	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-898	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-899	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-900	Het-9	CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-901	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-902	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-903	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-904	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-905	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-906	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)

D-907	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-908	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> Ph
D-909	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	CH <sub>2</sub> CH <sub>2</sub> Ph
D-910	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-911	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-912	Het-9	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl
D-913	Het-12	NHCH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-914	Het-12	NHCH <sub>2</sub>	H	1	C≡CH
D-915	Het-12	NHCH <sub>2</sub>	H	1	cyclopropyl
D-916	Het-12	NHCH <sub>2</sub>	H	1	cyclohexyl
D-917	Het-12	NHCH <sub>2</sub>	H	1	Ph
D-918	Het-12	NHCH <sub>2</sub>	H	1	Ph(p-F)
D-919	Het-12	NHCH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-920	Het-12	NHCH <sub>2</sub>	H	1	3-pyridyl
D-921	Het-12	NHCH <sub>2</sub>	H	1	5-pyrimidinyl
D-922	Het-12	NHCH <sub>2</sub>	H	1	3-quinolyl
D-923	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	CH=CH <sub>2</sub>
D-924	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	C≡CH
D-925	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclopropyl
D-926	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	cyclohexyl
D-927	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph
D-928	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph(p-F)
D-929	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	Ph (3,5-dichloro)
D-930	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-pyridyl
D-931	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	5-pyrimidinyl
D-932	Het-12	NHCH <sub>2</sub> CH <sub>2</sub>	H	1	3-quinolyl



CLAIMS

What is claimed is:

1. A compound of Formula (I):

5

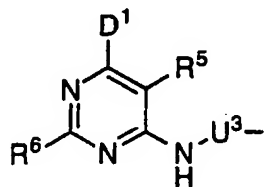
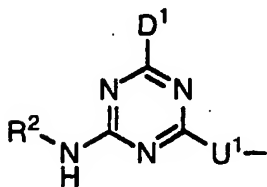
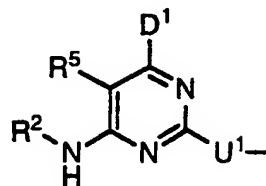
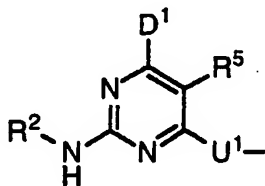
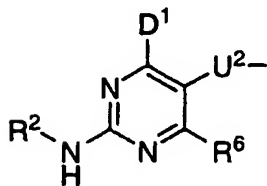
G-T

(I)

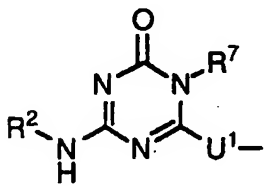
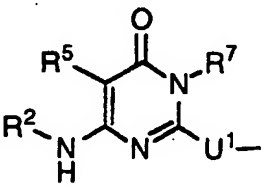
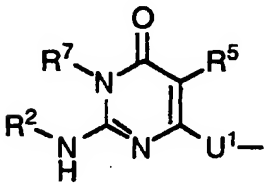
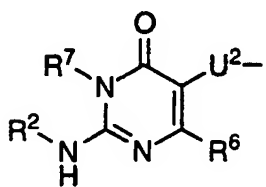
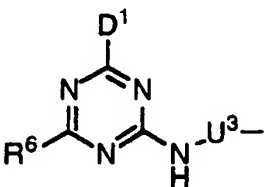
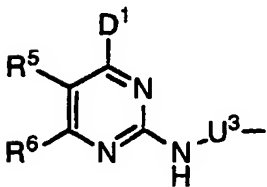
including stereoisomeric forms thereof, tautomeric forms  
10 thereof, pharmaceutically acceptable salt forms thereof or  
prodrug forms thereof, wherein:

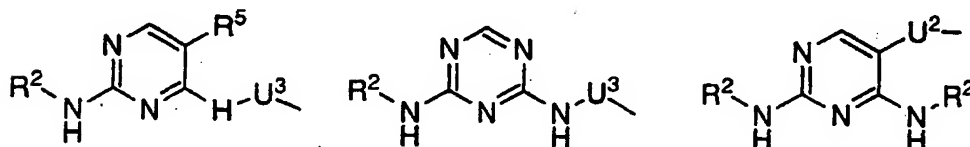
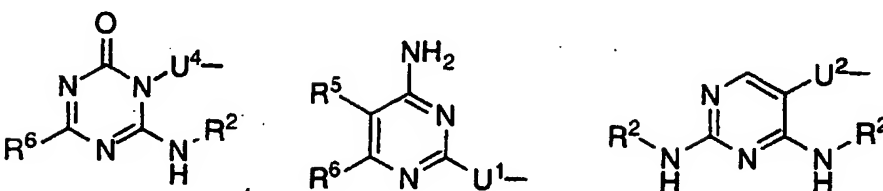
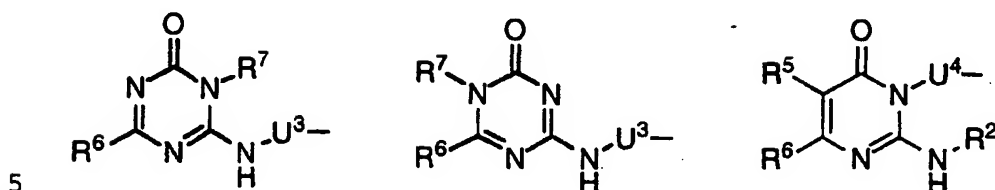
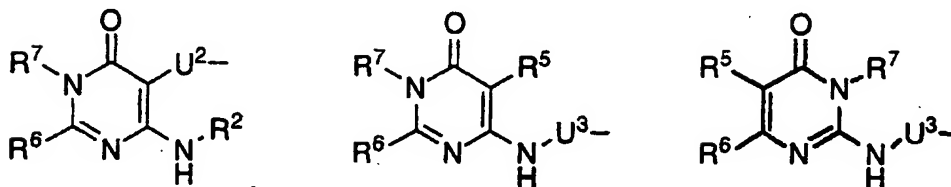
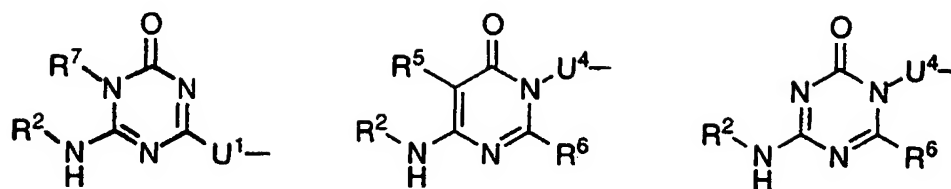
T is an integrin antagonist template; and

15 G is a guanidine mimic selected from:

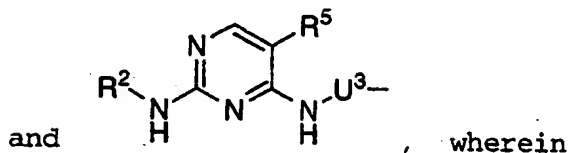


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wherein

D<sup>1</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, SR<sup>3</sup>, F, Cl, Br, CF<sub>3</sub>, and C<sub>1</sub>-C<sub>4</sub> alkyl;

15

R<sup>2</sup> at each occurrence is independently selected from:

H, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>

cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>3</sup> at each occurrence is independently selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>4</sup> is selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>2</sup> and R<sup>4</sup> when both substituents on the same nitrogen atom as in (-NR<sup>2</sup>R<sup>4</sup>) can be taken together with

the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said  
5 heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub>  
10 alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, arylsulfonyl, and heteroarylsulfonyl;

R<sup>5</sup> is selected from:  
15 H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, NO<sub>2</sub>, NO, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl and heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-  
20 C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered  
25 heterocyclic ring containing 1, 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
30 NO<sub>2</sub>, and aryl, wherein said aryl group is substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

35 R<sup>6</sup> is selected from:  
H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>, F, Cl, and Br, wherein said aryl or heteroaryl groups are substituted with 0-2

substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

- 5 alternatively, R<sup>5</sup> and R<sup>6</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms or a 5-7 membered carbocyclic ring, said carbocyclic or  
10 heterocyclic ring being aromatic or nonaromatic, said carbocyclic or heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub> and aryl, wherein said aryl groups are substituted  
15 with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>7</sup> is selected from:

- 20 H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
25 and NO<sub>2</sub>;

- alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent atoms, are taken together with the atoms to which they are attached to form a 5-7 membered heterocyclic ring  
30 containing 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and aryl,  
35 wherein said aryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

U<sup>1</sup> is selected from:

- (CH<sub>2</sub>)<sub>n</sub>-,
- Q<sup>1</sup>-(CH<sub>2</sub>)<sub>m</sub>-,
- 5 - (CH<sub>2</sub>)<sub>m</sub>-Q<sup>2</sup>-,
- (CH<sub>2</sub>)<sub>t</sub>-Q<sup>2</sup>-CH<sub>2</sub>-,
- CH<sub>2</sub>-Q<sup>2</sup>-(CH<sub>2</sub>)<sub>t</sub>-,
- (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-C(=O)-,
- (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,
- 10 - (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,
- C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-,
- N(R<sup>4</sup>)-,
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-Q<sup>2</sup>-,
- 15 - N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-C(=O)-;

U<sup>2</sup> is selected from:

- (CH<sub>2</sub>)<sub>h</sub>-,
- 20 - Q<sup>1</sup>-(CH<sub>2</sub>)<sub>r</sub>-,
- (CH<sub>2</sub>)<sub>r</sub>-Q<sup>2</sup>-,
- (CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-C(=O)-,
- (CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>i</sub>-C(=O)-N(R<sup>3</sup>)-,
- 25 - (CH<sub>2</sub>)<sub>i</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>i</sub>-Q<sup>2</sup>-CH<sub>2</sub>-,
- CH<sub>2</sub>-Q<sup>2</sup>-(CH<sub>2</sub>)<sub>i</sub>-,
- C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>i</sub>-,
- N(R<sup>4</sup>)-,
- 30 - N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-Q<sup>2</sup>-,
- N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>i</sub>-, and
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-C(=O)-;

U<sup>3</sup> is selected from:

- 35 - (CH<sub>2</sub>)<sub>h</sub>-,
- (CH<sub>2</sub>)<sub>q</sub>-Q<sup>2</sup>-,
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-C(=O)-,
- (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,

5        $-(\text{CH}_2)_q-\text{S}(\text{O})_2-\text{N}(\text{R}^3)-$   
           $-(\text{CH}_2)_q-\text{N}(\text{R}^3)-\text{S}(\text{O})_2-$   
           $-(\text{CH}_2)_q-\text{N}(\text{R}^3)-\text{CH}_2-$   
           $-(\text{CH}_2)_q-\text{O}-\text{CH}_2-$   
           $-(\text{CH}_2)_h-\text{C}(=\text{O})-$   
           $-\text{C}(=\text{O})-(\text{CH}_2)_r-$ , and  
           $-\text{C}(=\text{O})-\text{N}(\text{R}^4)-(\text{CH}_2)_p$ ;

10        $\text{U}^4$  is selected from:  
           $-(\text{CH}_2)_h-$   
           $-(\text{CH}_2)_2-\text{Q}^2-$   
           $-(\text{CH}_2)_2-\text{O}-\text{CH}_2-$   
           $-(\text{CH}_2)_r-\text{C}(=\text{O})-$   
           $-\text{C}(=\text{O})-(\text{CH}_2)_r-$ , and  
 15        $-\text{C}(=\text{O})-\text{N}(\text{R}^4)-(\text{CH}_2)_r$ ;

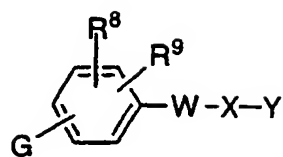
$\text{Q}^1$  is  $-\text{O}-$ ,  $-\text{S}-$ , or  $\text{N}(\text{R}^4)-$ ;

20        $\text{Q}^2$  is  $-\text{O}-$ ,  $-\text{S}-$ ,  $-\text{S}(=\text{O})-$ ,  $-\text{S}(=\text{O})_2-$ , or  $\text{N}(\text{R}^3)-$ ;

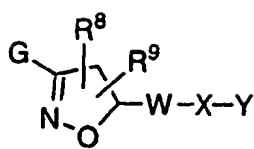
25        $h$  is 0-4;  
           $i$  is 0-2;  
           $m$  is 1-4;  
           $n$  is 0-5;  
           $q$  is 2-3;  
           $r$  is 0-3;  
           $t$  is 1-3; and  
           $p$  is 0-2.

30       provided that when  $\text{R}^6$  is hydrogen then  $\text{D}^1$  is not  
          hydrogen.

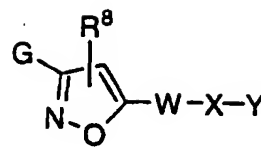
35       2. A compound of Claim 1 of Formula (IA), (IB), (IC),  
          (ID), (IE), (IG) or (IH):



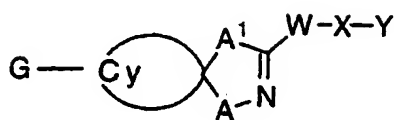
(IA)



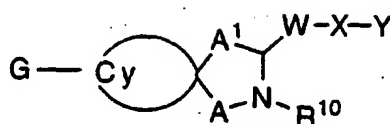
(IB)



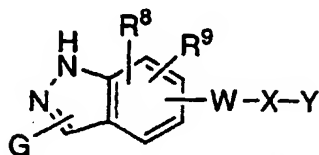
(IC)



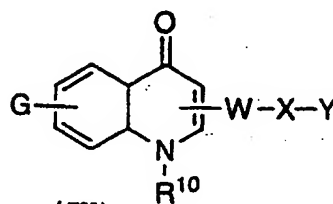
(ID)



(IE)



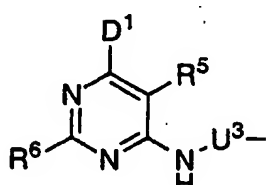
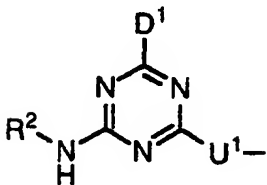
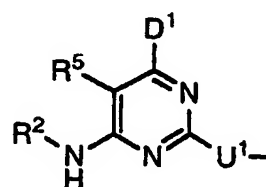
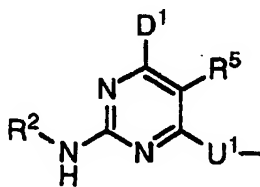
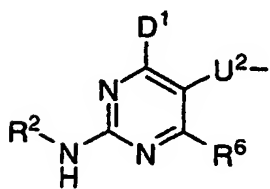
(IG)



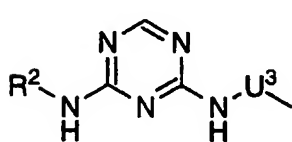
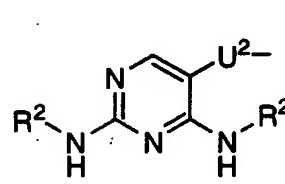
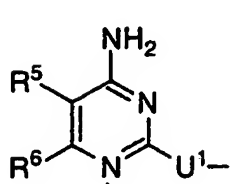
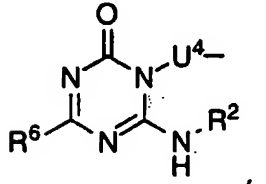
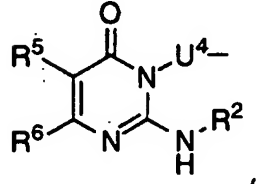
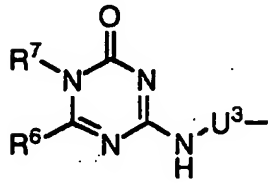
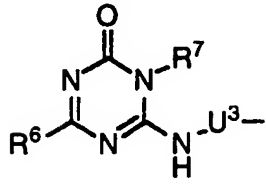
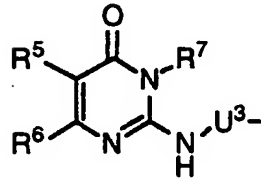
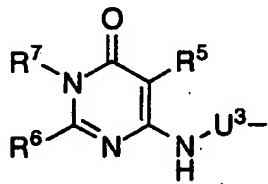
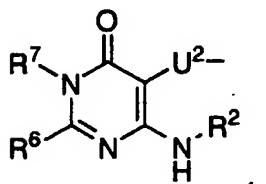
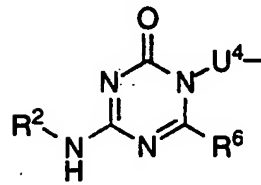
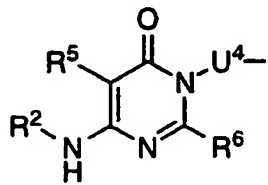
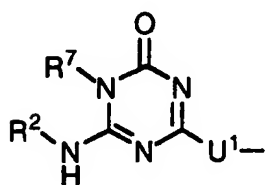
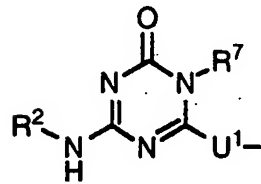
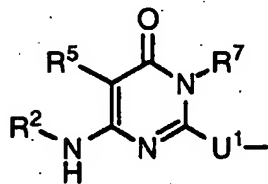
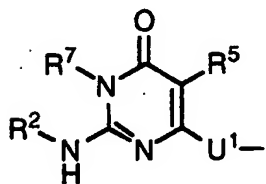
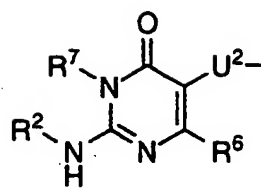
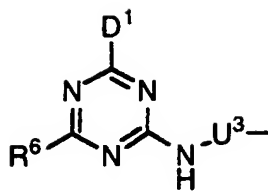
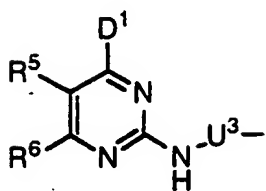
(IH)

including stereoisomeric forms thereof, tautomeric forms thereof, pharmaceutically acceptable salt forms thereof or prodrug forms thereof, wherein:

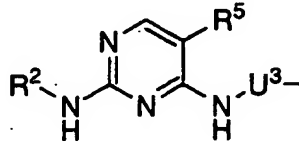
G is a *meta* or *para* substituent with respect to W and is selected from:







and



A<sup>1</sup> is selected from -NH-, -CH- or -O-;

A is selected from -O- or -NH-;

5

Cy is a spiro-fused 4-7 membered ring, including the spiro atom, containing 0-2 heteroatoms selected from O, S, or N, said ring system optionally being substituted on carbon with keto, or being substituted on carbon or  
10 nitrogen independently with 0-2 R<sup>8</sup>;

D<sup>1</sup> is selected from:

NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, SR<sup>3</sup>, F, Cl, Br, CF<sub>3</sub>, and C<sub>1</sub>-C<sub>4</sub> alkyl;

15 R<sup>2</sup> at each occurrence is independently selected from:  
H, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups  
20 are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

25  
30 R<sup>3</sup> at each occurrence is independently selected from:  
H, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or  
35

heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

5 R<sup>4</sup> is selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>2</sup> and R<sup>4</sup> when both substituents on the same nitrogen atom as in (-NR<sup>2</sup>R<sup>4</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, arylsulfonyl, and heteroarylsulfonyl;

R<sup>5</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, NO<sub>2</sub>, NO, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), wherein said aryl and heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively,  $\text{-NHR}^2$  and  $\text{R}^5$ , when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of  $\text{C}_1\text{-C}_4$  alkyl,  $\text{C}_1\text{-C}_4$  alkoxy, F, Cl, Br,  $\text{CF}_3$ ,  $\text{NO}_2$ , and aryl, wherein said aryl group is substituted with 0-2 substituents independently selected from the group consisting of  $\text{C}_1\text{-C}_4$  alkyl,  $\text{C}_1\text{-C}_4$  alkoxy, F, Cl, Br,  $\text{CF}_3$ , and  $\text{NO}_2$ ;

$\text{R}^6$  is selected from:

H,  $\text{NR}^2\text{R}^4$ ,  $\text{OR}^3$ ,  $\text{C}_1\text{-C}_6$  alkyl, aryl( $\text{C}_0\text{-C}_5$  alkyl), heteroaryl( $\text{C}_0\text{-C}_5$  alkyl),  $\text{CF}_3$ , F, Cl, and Br, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of  $\text{C}_1\text{-C}_4$  alkyl,  $\text{C}_1\text{-C}_4$  alkoxy, F, Cl, Br,  $\text{CF}_3$ , and  $\text{NO}_2$ ;

alternatively,  $\text{R}^5$  and  $\text{R}^6$ , when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms or a 5-7 membered carbocyclic ring, said carbocyclic or heterocyclic ring being aromatic or nonaromatic, said carbocyclic or heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of  $\text{C}_1\text{-C}_4$  alkyl,  $\text{C}_1\text{-C}_4$  alkoxy, F, Cl, Br,  $\text{CF}_3$ ,  $\text{NO}_2$  and aryl, wherein said aryl groups are substituted with 0-2 substituents independently selected from the group consisting of  $\text{C}_1\text{-C}_4$  alkyl,  $\text{C}_1\text{-C}_4$  alkoxy, F, Cl, Br,  $\text{CF}_3$ , and  $\text{NO}_2$ ;

$\text{R}^7$  is selected from:

H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent atoms, are taken together with the atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and aryl, wherein said aryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

U<sup>1</sup> is selected from:

- (CH<sub>2</sub>)<sub>n</sub>-,  
 -Q<sup>1</sup>-(CH<sub>2</sub>)<sub>m</sub>-,  
 -(CH<sub>2</sub>)<sub>m</sub>-Q<sup>2</sup>-,  
 -(CH<sub>2</sub>)<sub>t</sub>-Q<sup>2</sup>-CH<sub>2</sub>-,  
 -CH<sub>2</sub>-Q<sup>2</sup>-(CH<sub>2</sub>)<sub>t</sub>-,  
 -(CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-C(=O)-,  
 -(CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,  
 -(CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,  
 -(CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,  
 -C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-,  
 -N(R<sup>4</sup>)-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-Q<sup>2</sup>-,  
 -N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-C(=O)-;

U<sup>2</sup> is selected from:

-(CH<sub>2</sub>)<sub>h</sub>-,

$-Q^1-(CH_2)_r-$ ,  
 $-(CH_2)_r-Q^2-$ ,  
 $-(CH_2)_i-N(R^3)-C(=O)-$ ,  
 $-(CH_2)_i-N(R^3)-S(=O)_2-$ ,  
5  $-(CH_2)_i-C(=O)-N(R^3)-$ ,  
 $-(CH_2)_i-S(=O)_2-N(R^3)-$ ,  
 $-(CH_2)_i-Q^2-CH_2-$ ,  
 $-CH_2-Q^2-(CH_2)_i-$ ,  
 $-C(=O)-N(R^4)-(CH_2)_i-$ ,  
10  $-N(R^4)-$ ,  
 $-N(R^4)-(CH_2)_2-Q^2-$ ,  
 $-N(R^4)-C(=O)-(CH_2)_i-$ , and  
 $-N(R^4)-(CH_2)_t-C(=O)-$ ;

15  $U^3$  is selected from:  
 $-(CH_2)_h-$ ,  
 $-(CH_2)_q-Q^2-$ ,  
 $-(CH_2)_q-N(R^3)-C(=O)-$ ,  
 $-(CH_2)_t-C(=O)-N(R^3)-$ ,  
20  $-(CH_2)_q-S(O)_2-N(R^3)-$ ,  
 $-(CH_2)_q-N(R^3)-S(O)_2-$ ,  
 $-(CH_2)_q-N(R^3)-CH_2-$ ,  
 $-(CH_2)_q-O-CH_2-$ ,  
 $-(CH_2)_h-C(=O)-$ ,  
25  $-C(=O)-(CH_2)_r-$ , and  
 $-C(=O)-N(R^4)-(CH_2)_p$ ;

$U^4$  is selected from:  
 $-(CH_2)_h-$ ,  
30  $-(CH_2)_2-Q^2-$ ,  
 $-(CH_2)_2-O-CH_2-$ ,  
 $-(CH_2)_r-C(=O)-$ ,  
 $-C(=O)-(CH_2)_r-$ , and  
 $-C(=O)-N(R^4)-(CH_2)_r$ ;

35  $Q^1$  is  $-O-$ ,  $-S-$ , or  $N(R^4)$ ;

$Q^2$  is  $-O-$ ,  $-S-$ ,  $-S(=O)-$ ,  $-S(=O)_2-$ , or  $N(R^3)$ ;

R<sup>8</sup> and R<sup>9</sup> are independently selected from:

H, C<sub>1</sub>-C<sub>10</sub> alkyl, NO<sub>2</sub>, CF<sub>3</sub>, F, Cl, Br, C<sub>1</sub>-C<sub>10</sub>  
 alkylcarbonyl, -NR<sup>2</sup>R<sup>4</sup>, OC(=O)R<sup>10</sup>, OC(=O)OR<sup>10</sup>, OR<sup>10</sup>,  
 5 OC(=O)NR<sup>10</sup>R<sup>11</sup>, OCH<sub>2</sub>CO<sub>2</sub>R<sup>10</sup>, CO<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>R<sup>10</sup>, CO<sub>2</sub>R<sup>10</sup>, C(=O)R<sup>10</sup>,  
 NR<sup>10</sup>C(=O)R<sup>11</sup>, NR<sup>7</sup>C(=O)OR<sup>10</sup>, NR<sup>7</sup>C(=O)NR<sup>10</sup>R<sup>11</sup>,  
 NR<sup>7</sup>SO<sub>2</sub>NR<sup>10</sup>R<sup>11</sup>, NR<sup>7</sup>SO<sub>2</sub>R<sup>10</sup>, SR<sup>10</sup>, S(=O)R<sup>10</sup>, SO<sub>2</sub>R<sup>10</sup>,  
 SO<sub>2</sub>NR<sup>10</sup>R<sup>11</sup>, SiMe<sub>3</sub>, R<sup>10</sup>OOC(C<sub>1</sub>-C<sub>6</sub> alkyl), R<sup>2</sup>R<sup>4</sup>N(C<sub>2</sub>-C<sub>6</sub>  
 alkyl), R<sup>10</sup>OOC(C<sub>1</sub>-C<sub>6</sub> alkoxy), R<sup>2</sup>R<sup>4</sup>N(C<sub>2</sub>-C<sub>6</sub> alkoxy), C<sub>2</sub>-C<sub>6</sub>  
 10 alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkylmethyl,  
 aryl, and aryl(C<sub>1</sub>-C<sub>5</sub> alkyl)-, wherein said aryl groups  
 are substituted with 0-2 substituents independently  
 selected from a group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
 alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

15

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
 alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
 wherein said aryl or heteroaryl groups are substituted  
 20 with 0-2 substituents independently selected from the  
 group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl,  
 Br, CF<sub>3</sub>, and NO<sub>2</sub>;

25

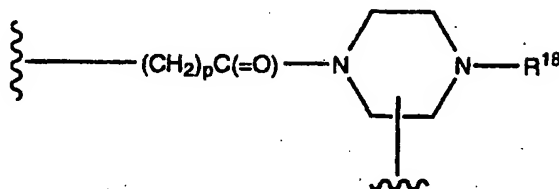
alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same  
 nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together  
 with the nitrogen atom to which they are attached to  
 form a heterocycle selected from 1-aziridinyl, 1-  
 azetidiny, 1-piperidinyl, 1-morpholinyl, 1-  
 pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-  
 30 piperazinyl; said heterocycle being optionally  
 substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub>  
 alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub>  
 alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl,  
 C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub>  
 35 alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub>  
 alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub>  
 alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and  
 heteroarylsulfonyl;

W is selected from:

- $C_1-C_4$  alkylene,  
 $-(C(R^{12})_2)_pO(C(R^{12})_2)_p-$ ,  
 5  $-(C(R^{12})_2)_pC(=O)(C(R^{12})_2)_p-$ ,  
 $-(C(R^{12})_2)_pC(=O)N(R^{13})-$ , and  
 $-C(=O)-N(R^{13})-(C(R^{12})_2)_p-$ ;

- X is  $-(C(R^{12})_2)_pC(R^{12})(R^{14})-C(R^{12})_2-$  or  
 10  $-(C(R^{12})_2)_p-C(R^{12})(R^{15})-$ ;

alternatively, W and X can be taken together to be



15

- $R^{12}$  at each occurrence is independently selected from:  
 H,  $C_1-C_6$  alkyl,  $C_2-C_6$  alkenyl,  $C_2-C_6$  alkynyl,  
 $C_3-C_7$  cycloalkyl( $C_0-C_4$  alkyl)-, ( $C_1-C_4$  alkyl)carbonyl,  
 aryl( $C_0-C_6$  alkyl), and heteroaryl( $C_0-C_6$  alkyl), wherein  
 20 said aryl or heteroaryl groups are substituted with 0-2  
 substituents independently selected from the group  
 consisting of  $C_1-C_4$  alkyl,  $C_1-C_4$  alkoxy, F, Cl, Br,  $CF_3$ ,  
 and  $NO_2$ ;

- 25  $R^{13}$  is selected from:  
 H,  $C_1-C_6$  alkyl,  $C_3-C_7$  cycloalkyl( $C_0-C_6$  alkyl), aryl( $C_0-$   
 $C_6$  alkyl), or heteroaryl( $C_0-C_6$  alkyl), wherein said aryl  
 and heteroaryl groups are substituted with 0-2  
 substituents independently selected from the group  
 30 consisting of  $C_1-C_4$  alkyl,  $C_1-C_4$  alkoxy, F, Cl, Br,  $CF_3$ ,  
 and  $NO_2$ ;

$R^{14}$  is selected from:



H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), R<sup>17</sup>R<sup>20</sup>NC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>R<sup>20</sup>N(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above alkyl, cycloalkyl, aryl or heteroaryl groups may optionally be substituted independently with 0-1 R<sup>16</sup> or 0-2 R<sup>8</sup>;

R<sup>15</sup> is selected from:

H, R<sup>16</sup>, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl (C<sub>0</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylamino(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>2</sub>-C<sub>10</sub> dialkyl-amino(C<sub>1</sub>-C<sub>6</sub> alkyl), (C<sub>1</sub>-C<sub>10</sub> alkyl)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), CO<sub>2</sub>R<sup>17</sup>, C(=O)R<sup>17</sup>, CONR<sup>17</sup>R<sup>20</sup>, SO<sub>2</sub>R<sup>17</sup>, and SO<sub>2</sub>NR<sup>17</sup>R<sup>20</sup>, wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

Y is selected from -C(=O)R<sup>19</sup>, -SO<sub>3</sub>H, and -PO<sub>3</sub>H;

R<sup>16</sup> is selected from:

-N(R<sup>20</sup>)-C(=O)-O-R<sup>17</sup>,  
 -N(R<sup>20</sup>)-C(=O)-R<sup>17</sup>,  
 -N(R<sup>20</sup>)-C(=O)-NH-R<sup>17</sup>,  
 -N(R<sup>20</sup>)SO<sub>2</sub>-R<sup>17</sup>, and  
 -N(R<sup>20</sup>)SO<sub>2</sub>-NR<sup>20</sup>R<sup>17</sup>;

R<sup>17</sup> is selected from:

C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),

heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), and heteroarylheteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl or heteroaryl groups are optionally substituted with 0-3 substituents independently selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>18</sup> is selected from:

H,  
-C(=O)OR<sup>17</sup>,  
-C(=O)R<sup>17</sup>,  
-C(=O)NHR<sup>17</sup>,  
-SO<sub>2</sub>R<sup>17</sup>,  
-SO<sub>2</sub>NR<sup>20</sup>R<sup>17</sup>,  
C<sub>1</sub>-C<sub>10</sub> alkyl,  
C<sub>3</sub>-C<sub>10</sub> cycloalkyl (C<sub>0</sub>-C<sub>6</sub> alkyl),  
aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), and  
heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
wherein said aryl group is optionally substituted with 0-3 substituents independently selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, aryl, F, Cl, Br, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

R<sup>19</sup> is selected from:

hydroxy,  
C<sub>1</sub>-C<sub>10</sub> alkyloxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkyloxy,  
aryloxy,  
aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy),  
C<sub>2</sub>-C<sub>10</sub> alkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
aryloxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
aryloxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
arylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,

C<sub>1</sub>-C<sub>5</sub> alkoxy(C<sub>1</sub>-C<sub>5</sub> alkyl)carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy,  
(5-(C<sub>1</sub>-C<sub>5</sub> alkyl)-1,3-dioxo-cyclopenten-2-one-  
yl)methyloxy,  
(5-aryl-1,3-dioxo-cyclopenten-2-one-yl)methyloxy,  
5 (R<sup>10</sup>)(R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy) and  
-O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>)(R<sup>22</sup>)(R<sup>23</sup>)Z<sup>-</sup>;

R<sup>20</sup> is selected from:

10 H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl)-, aryl,  
aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)-, and heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
said aryl or heteroaryl groups are optionally  
substituted with 0-3 substituents independently  
selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

15

Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
ethanesulfonate, acetate, trifluoroacetate, citrate,  
20 oxalate, succinate, and malonate;

20

R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:

25 H, C<sub>1</sub>-C<sub>9</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl, and heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), wherein said alkyl or aryl groups are  
substituted with 0-2 substituents selected from the  
group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,  
Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

25

30 alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
membered heterocyclic aromatic or non-aromatic ring  
system containing 1-3 heteroatoms selected from N, O  
and S and R<sup>23</sup> is defined as above or R<sup>21</sup>, R<sup>22</sup>, and R<sup>23</sup>  
can be taken together to form a heterobicyclic ring  
35 system containing 1-3 heteroatoms selected from N, O  
and S, wherein said heterocyclic or heterobicyclic ring  
being substituted with 0-2 groups selected from C<sub>1</sub>-C<sub>4</sub>  
alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, halo, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

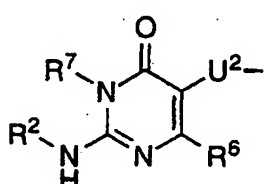
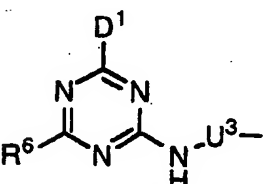
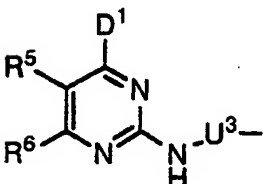
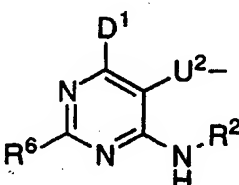
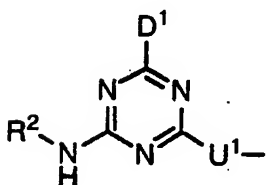
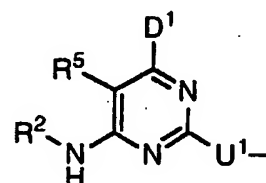
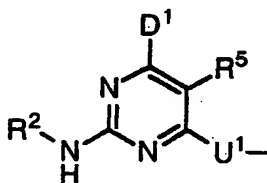
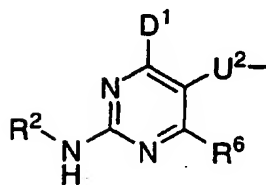
35

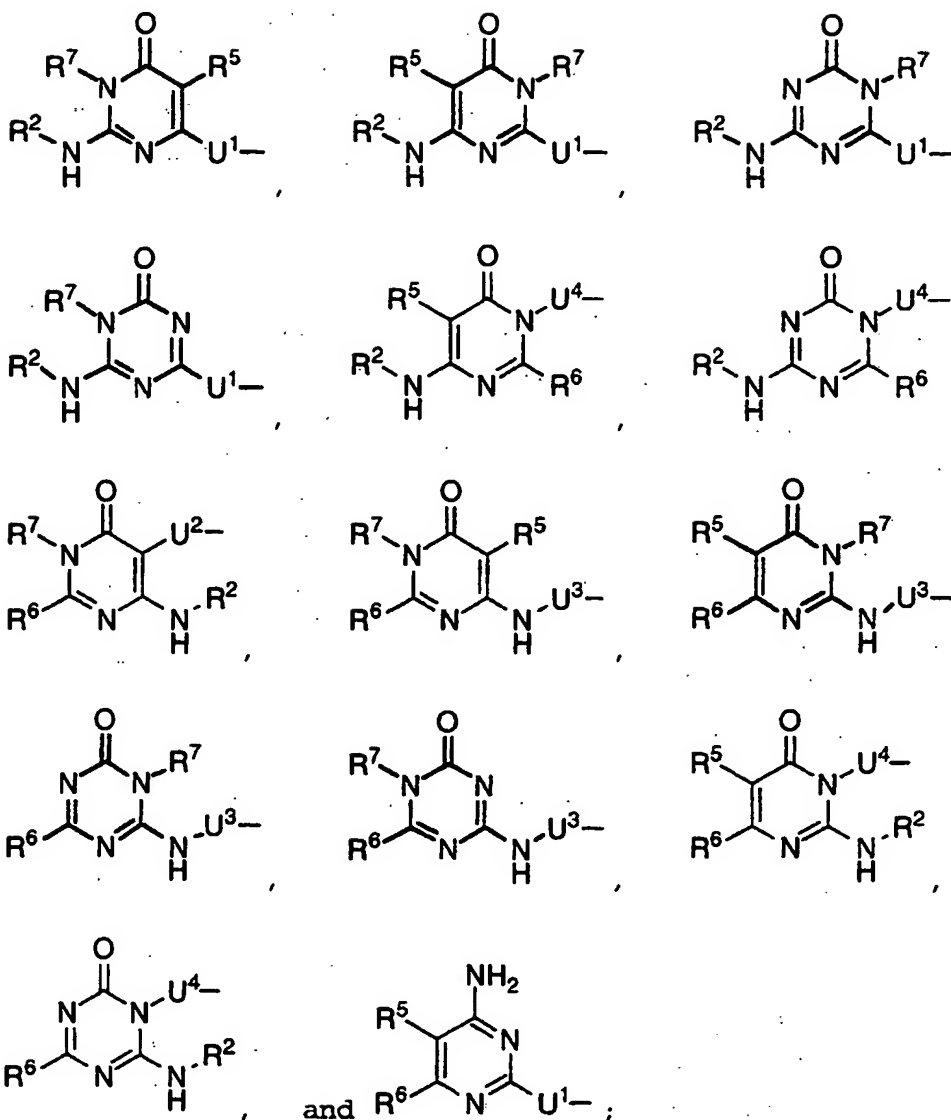
- h is 0-4;  
 i is 0-2;  
 k is 2-6;  
 5 m is 1-4;  
 n is 0-5;  
 q is 2-3;  
 r is 0-3;  
 t is 1-3; and  
 10 p is 0-2;

provided that h, i, m, n, q, r, t, and p at each occurrence, are chosen such that the number of in-chain atoms between Y and the pyrimidine, pyrimidone, triazine or triazinone of G is in the range of 8-12.

3. A compound of Claim 2 wherein:

G is a meta or para substituent with respect to W and is selected from:





$D^1$  is selected from:  $NR^2R^4$ ,  $OR^3$ ,  $SR^3$ , F, Cl, Br,  $CF_3$ , methyl, ethyl, propyl, and butyl;

$R^2$  at each occurrence is independently selected from:

- 15 H,  $OR^3$ ,  $C_1$ - $C_6$  alkyl, ( $C_1$ - $C_6$  alkyl)carbonyl, ( $C_1$ - $C_6$  alkoxy)carbonyl, ( $C_0$ - $C_6$  alkyl)aminocarbonyl,  $C_3$ - $C_6$  alkenyl,  $C_3$ - $C_7$  cycloalkyl( $C_0$ - $C_4$  alkyl),  $C_3$ - $C_7$  cycloalkyl( $C_0$ - $C_4$  alkyl)carbonyl,  $C_3$ - $C_7$  cycloalkyl( $C_0$ - $C_4$  alkoxy)carbonyl, aryl( $C_0$ - $C_6$  alkyl), heteroaryl( $C_0$ - $C_6$  alkyl), aryl( $C_0$ - $C_6$  alkyl)carbonyl, heteroaryl( $C_0$ - $C_6$  alkyl)carbonyl,  $C_1$ - $C_6$  alkylsulfonyl, aryl( $C_0$ - $C_6$
- 20

alkyl)sulfonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl)sulfonyl,  
aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and heteroaryl(C<sub>1</sub>-C<sub>6</sub>  
alkoxy)carbonyl, wherein said aryl or heteroaryl groups  
are substituted with 0-2 substituents independently  
5 selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>3</sup> at each occurrence is independently selected from:

10 H, C<sub>1</sub>-C<sub>6</sub> alkyl, (C<sub>1</sub>-C<sub>6</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>6</sub>  
alkoxy)carbonyl, (C<sub>0</sub>-C<sub>6</sub> alkyl)aminocarbonyl, C<sub>3</sub>-C<sub>6</sub>  
alkenyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
15 alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and  
heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or  
heteroaryl groups are substituted with 0-2 substituents  
independently selected from the group consisting of C<sub>1</sub>-  
20 C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>4</sup> is selected from:

25 H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>  
alkoxycarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl)carbonyl, heteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl)carbonyl, aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, and  
heteroaryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)carbonyl, wherein said aryl or  
heteroaryl groups are substituted with 0-2 substituents  
30 independently selected from the group consisting of C<sub>1</sub>-  
C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>2</sup> and R<sup>4</sup> when both substituents on the same  
nitrogen atom as in (-NR<sup>2</sup>R<sup>4</sup>) can be taken together with  
35 the nitrogen atom to which they are attached to form a  
heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl,  
thiamorpholinyl, thiazolidinyl, and 1-piperazinyl; said

heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, 5 C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, arylsulfonyl, and heteroarylsulfonyl;

10 R<sup>5</sup> is selected from:  
H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, NO<sub>2</sub>, NO, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl and heteroaryl groups are substituted with 0-2 substituents 15 independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms 20 to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group 25 consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and phenyl, wherein said phenyl group is substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

30 R<sup>6</sup> is selected from:  
H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, C<sub>1</sub>-C<sub>6</sub> alkyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>, F, Cl, and Br, wherein said aryl or heteroaryl groups are substituted with 0-2 35 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>5</sup> and R<sup>6</sup>, when substituents on adjacent carbon atoms, are taken together with the carbon atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 1, 2 or 3 nitrogen atoms or a 5-7 membered carbocyclic ring, said carbocyclic or heterocyclic ring being aromatic or nonaromatic, said carbocyclic or heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub> and phenyl, wherein said phenyl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>7</sup> is selected from:  
H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent atoms, are taken together with the atoms to which they are attached to form a 5-7 membered heterocyclic ring containing 2 or 3 nitrogen atoms, said heterocyclic ring being aromatic or nonaromatic, said heterocyclic ring being substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, NO<sub>2</sub>, and phenyl, wherein said phenyl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

U<sup>1</sup> is selected from:

-(CH<sub>2</sub>)<sub>n</sub>-,  
-O-(CH<sub>2</sub>)<sub>m</sub>-,



- (CH<sub>2</sub>)<sub>m</sub>-O-,  
 - (CH<sub>2</sub>)<sub>m</sub>-N(R<sup>3</sup>)-,  
 -S-(CH<sub>2</sub>)<sub>m</sub>-,  
 - (CH<sub>2</sub>)<sub>m</sub>-S-,  
 5 - (CH<sub>2</sub>)<sub>m</sub>-S(=O)-,  
 - (CH<sub>2</sub>)<sub>m</sub>-S(=O)<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-C(=O)-,  
 - (CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,  
 10 - (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,  
 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,  
 - (CH<sub>2</sub>)<sub>t</sub>-O-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-S-CH<sub>2</sub>-,  
 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)-CH<sub>2</sub>-,  
 15 - (CH<sub>2</sub>)<sub>t</sub>-S(=O)<sub>2</sub>-CH<sub>2</sub>-,  
 -CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-S-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-S(=O)-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-S(=O)<sub>2</sub>-(CH<sub>2</sub>)<sub>t</sub>-,  
 20 -CH<sub>2</sub>-N(R<sup>3</sup>)-(CH<sub>2</sub>)<sub>t</sub>-,  
 -C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-,  
 -N(R<sup>4</sup>)-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>m</sub>-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-,  
 25 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-O-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-S-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-S(O)-,  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>q</sub>-S(O)<sub>2</sub>-,  
 -N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and  
 30 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-C(=O)-;

U<sup>2</sup> is selected from:

- (CH<sub>2</sub>)<sub>h</sub>-,  
 -O-(CH<sub>2</sub>)<sub>r</sub>-,  
 35 - (CH<sub>2</sub>)<sub>r</sub>-O-,  
 - (CH<sub>2</sub>)<sub>r</sub>-N(R<sup>3</sup>)-,  
 -S-(CH<sub>2</sub>)<sub>r</sub>-,  
 - (CH<sub>2</sub>)<sub>r</sub>-S-,

- (CH<sub>2</sub>)<sub>r</sub>-S(=O)-,
- (CH<sub>2</sub>)<sub>r</sub>-S(=O)<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-C(=O)-,
- 5 - (CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-S(=O)<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>i</sub>-C(=O)-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>i</sub>-S(=O)<sub>2</sub>-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>i</sub>-O-CH<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>i</sub>-S-CH<sub>2</sub>-,
- 10 - (CH<sub>2</sub>)<sub>i</sub>-S(=O)-CH<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>i</sub>-S(=O)<sub>2</sub>-CH<sub>2</sub>-,
- CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>i</sub>-,
- CH<sub>2</sub>-S-(CH<sub>2</sub>)<sub>i</sub>-,
- CH<sub>2</sub>-S(=O)-(CH<sub>2</sub>)<sub>i</sub>-,
- 15 -CH<sub>2</sub>-S(=O)<sub>2</sub>-(CH<sub>2</sub>)<sub>i</sub>-,
- CH<sub>2</sub>-N(R<sup>3</sup>)-(CH<sub>2</sub>)<sub>i</sub>-,
- C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>i</sub>-,
- N(R<sup>4</sup>)-,
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>r</sub>-,
- 20 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-N(R<sup>3</sup>)-,
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-O-,
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-S-,
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-S(O)-,
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>2</sub>-S(O)<sub>2</sub>-,
- 25 -N(R<sup>4</sup>)-C(=O)-(CH<sub>2</sub>)<sub>i</sub>-, and
- N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>t</sub>-C(=O)-;

U<sup>3</sup> is selected from:

- (CH<sub>2</sub>)<sub>h</sub>-,
- 30 - (CH<sub>2</sub>)<sub>q</sub>-O-,
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-C(=O)-,
- (CH<sub>2</sub>)<sub>t</sub>-C(=O)-N(R<sup>3</sup>)-,
- (CH<sub>2</sub>)<sub>q</sub>-S-,
- 35 - (CH<sub>2</sub>)<sub>q</sub>-S(O)-,
- (CH<sub>2</sub>)<sub>q</sub>-S(O)<sub>2</sub>-,
- (CH<sub>2</sub>)<sub>q</sub>-S(O)<sub>2</sub>-N(R<sup>3</sup>),
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-S(O)<sub>2</sub>-,

5       - (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,  
          - (CH<sub>2</sub>)<sub>q</sub>-O-CH<sub>2</sub>-,  
          - (CH<sub>2</sub>)<sub>h</sub>-C(=O)-,  
          - C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and  
          - C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>p</sub>;

U<sup>4</sup> is selected from:

10       - (CH<sub>2</sub>)<sub>h</sub>-,  
          - (CH<sub>2</sub>)<sub>2</sub>-O-,  
          - (CH<sub>2</sub>)<sub>2</sub>-N(R<sup>3</sup>)-,  
          - (CH<sub>2</sub>)<sub>2</sub>-S-,  
          - (CH<sub>2</sub>)<sub>2</sub>-S(O)-,  
          - (CH<sub>2</sub>)<sub>2</sub>-S(O)<sub>2</sub>-,  
          - (CH<sub>2</sub>)<sub>2</sub>-O-CH<sub>2</sub>-,  
 15       - (CH<sub>2</sub>)<sub>r</sub>-C(=O)-,  
          - C(=O)-(CH<sub>2</sub>)<sub>r</sub>-, and  
          - C(=O)-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>r</sub>;

20       R<sup>8</sup> and R<sup>9</sup> are independently selected from: H, C<sub>1</sub>-C<sub>4</sub> alkyl,  
          CF<sub>3</sub>, F, Cl, Br, and OR<sup>10</sup>;

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

25       H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
          alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl),  
          wherein said aryl or heteroaryl groups are substituted  
          with 0-2 substituents independently selected from the  
          group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl,  
          Br, CF<sub>3</sub>, and NO<sub>2</sub>;

30       alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same  
          nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together  
          with the nitrogen atom to which they are attached to  
          form a heterocycle selected from 1-aziridinyl, 1-  
          azetidiny, 1-piperidinyl, 1-morpholinyl, 1-  
 35       pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-  
          piperazinyl; said heterocycle being optionally  
          substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub>  
          alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub>

alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl,  
C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub>  
alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub>  
alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub>  
5 alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and  
heteroarylsulfonyl;

W is  $-(\text{CHR}^{12})_p\text{C}(=\text{O})\text{N}(\text{R}^{13})-$  or  $-\text{C}(=\text{O})-\text{N}(\text{R}^{13})-(\text{CHR}^{12})_p-$ ;

10 X is  $-\text{CH}(\text{R}^{14})-\text{CHR}^{12}-$  or  $-\text{CHR}^{12}-\text{CH}(\text{R}^{15})-$ ;

R<sup>12</sup> at each occurrence is independently selected from:  
H, or C<sub>1</sub>-C<sub>6</sub> alkyl;

15 R<sup>13</sup> is selected from:

H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-  
C<sub>6</sub> alkyl), or heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein said aryl  
and heteroaryl groups are substituted with 0-2  
substituents independently selected from the group  
20 consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>,  
and NO<sub>2</sub>;

R<sup>14</sup> is selected from:

H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub>  
25 cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub>  
alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl),  
C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub>  
alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>  
alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub>  
30 alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
R<sup>17</sup>R<sup>20</sup>NC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and  
R<sup>17</sup>R<sup>20</sup>N(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above  
alkyl, cycloalkyl, aryl or heteroaryl groups are  
substituted with 0-2 substituents independently  
35 selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>15</sup> is selected from:

- NH-C(=O)-O-R<sup>17</sup>,  
 -NH-C(=O)-R<sup>17</sup>,  
 -NH-C(=O)-NH-R<sup>17</sup>,  
 -NHSO<sub>2</sub>-R<sup>17</sup>, and  
 5 -NHSO<sub>2</sub>-NR<sup>20</sup>R<sup>17</sup>;

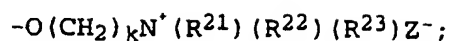
Y is -C(=O)R<sup>19</sup>;

R<sup>17</sup> is selected from:

- 10 C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
 heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
 heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub>  
 alkyl), and heteroarylheteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
 15 said aryl or heteroaryl groups are optionally  
 substituted with 0-3 substituents independently  
 selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
 C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>19</sup> is selected from:

- 20 hydroxy,  
 C<sub>1</sub>-C<sub>10</sub> alkyloxy,  
 C<sub>3</sub>-C<sub>10</sub> cycloalkyloxy,  
 aryloxy,  
 aryl(C<sub>1</sub>-C<sub>6</sub> alkoxy)-,  
 25 C<sub>2</sub>-C<sub>10</sub> alkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 C<sub>2</sub>-C<sub>10</sub> alkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 C<sub>3</sub>-C<sub>10</sub> cycloalkylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 30 C<sub>3</sub>-C<sub>10</sub> cycloalkoxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 aryloxy carbonyl(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 aryloxy carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 arylcarbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 C<sub>1</sub>-C<sub>5</sub> alkoxy(C<sub>1</sub>-C<sub>5</sub> alkyl) carbonyloxy(C<sub>1</sub>-C<sub>2</sub> alkyl)oxy-,  
 35 (5-(C<sub>1</sub>-C<sub>5</sub> alkyl)-1,3-dioxo-cyclopenten-2-one-  
 yl)methyloxy,  
 (5-aryl-1,3-dioxo-cyclopenten-2-one-yl)methyloxy,  
 (R<sup>10</sup>)(R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)- and



$R^{20}$  is selected from H, methyl, ethyl, propyl, and butyl;

5  $Z^-$  is a pharmaceutically acceptable anion selected from halide, bisulfate, sulfate, hydrogenphosphate, phosphate, toluenesulfonate, methanesulfonate, ethanesulfonate, acetate, trifluoroacetate, citrate, oxalate, succinate, and malonate;

10

$R^{21}$ ,  $R^{22}$  and  $R^{23}$  are independently selected from:

H,  $C_1$ - $C_6$  alkyl,  $C_3$ - $C_7$  cycloalkyl( $C_0$ - $C_4$  alkyl)-, aryl, aryl( $C_1$ - $C_6$  alkyl)-, heteroaryl, and heteroaryl( $C_1$ - $C_6$  alkyl)- wherein said alkyl or aryl groups are  
15 substituted with 0-2 substituents selected from the group consisting of  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  alkoxy, OH, F, Cl, Br,  $CF_3$ , and  $NO_2$ ;

alternatively  $R^{21}$  and  $R^{22}$  can be taken together to form a 5-7  
20 membered heterocyclic aromatic or non-aromatic ring system containing 1-3 heteroatoms selected from N, O and S and  $R^{23}$  is defined as above or  $R^{21}$ ,  $R^{22}$ , and  $R^{23}$  can be taken together to form a heterobicyclic ring system containing 1-3 heteroatoms selected from N, O  
25 and S, wherein said heterocyclic or heterobicyclic ring being substituted with 0-2 groups selected from  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  alkoxy, halo, -CN, - $NH_2$ , - $CF_3$ , and - $NO_2$ ;

h is 0-4;  
30 i is 0-2;  
k is 2-6;  
m is 1-4;  
n is 0-5;  
q is 2-3;  
35 r is 0-3;  
t is 1-3; and  
p is 0-2;

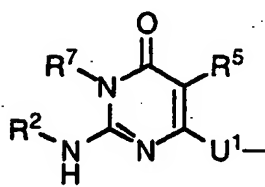
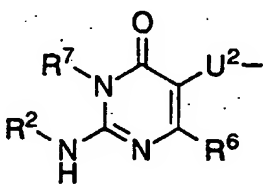
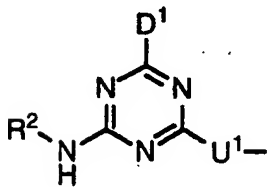
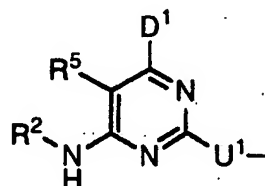
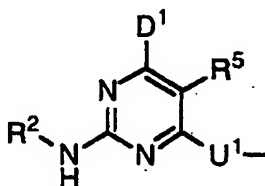
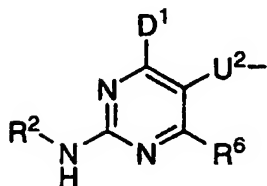
provided that h, i, m, n, q, r, t, and p at each occurrence, are chosen such that the number of in-chain atoms between Y and the pyrimidine, pyrimidone, triazine or triazinone of G is in the range of 8-12.

5

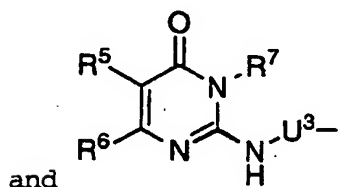
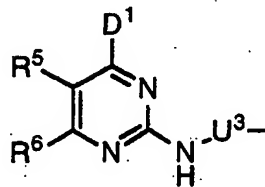
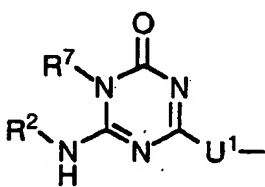
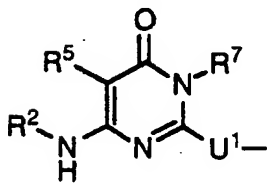
4. A compound of Claim 3 wherein:

G is a *meta* or *para* substituent with respect to W and is selected from:

10



15



D<sup>1</sup> is NR<sup>2</sup>R<sup>4</sup> or OR<sup>3</sup>;

20

R<sup>2</sup> at each occurrence is independently selected from:

H, methyl, ethyl, propyl, butyl, (C<sub>1</sub>-C<sub>4</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>4</sub> alkoxy)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl),

C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, and C<sub>3</sub>-C<sub>7</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl;

R<sup>3</sup> is selected from: H, methyl, ethyl, propyl, and butyl;

5

R<sup>4</sup> is selected from: H, methyl, ethyl, propyl, butyl  
cyclopropyl, and cyclopropylmethyl;

R<sup>5</sup> is selected from H, NR<sup>2</sup>R<sup>4</sup>, methyl, ethyl, propyl, butyl,  
10 pentyl, and hexyl;

alternatively, -NHR<sup>2</sup> and R<sup>5</sup>, when substituents on adjacent  
carbon atoms, are taken together with the carbon atoms  
to which they are attached to form a 5-6 membered  
15 heterocyclic ring containing 1, 2 or 3 nitrogen atoms,  
wherein -NHR<sup>2</sup>-R<sup>5</sup>- taken together are selected from the  
group -NH-CH=N-, -NH-N=N-, -NH-N=C-, -NH-CH=CH-,  
-NH-CH<sub>2</sub>-CH<sub>2</sub>-, -NH-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-, and -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH-,

20 R<sup>6</sup> is selected from:

H, NR<sup>2</sup>R<sup>4</sup>, OR<sup>3</sup>, methyl, ethyl, propyl, butyl, pentyl,  
hexyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), CF<sub>3</sub>,  
F, Cl, and Br, wherein said aryl or heteroaryl groups  
are substituted with 0-2 substituents independently  
25 selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -R<sup>5</sup> and -R<sup>6</sup>, when substituents on adjacent  
carbon atoms, are taken together with the carbon atoms  
30 to which they are attached to form a 6 membered  
heterocyclic ring containing 1 or 2 nitrogen atoms or a  
5-6 membered carbocyclic ring, wherein -R<sup>5</sup>-R<sup>6</sup>- taken  
together are selected from the group -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-,  
-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-, -CH=CH-CH=CH-, -N=CH-CH=CH-,  
35 -N=CH-CH=N-, -N=CH-N=CH-, and -N=N-CH=CH-;

R<sup>7</sup> is selected from:



H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkynyl, aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, -NHR<sup>2</sup> and R<sup>7</sup>, when substituents on adjacent atoms, are taken together with the atoms to which they are attached to form a 5-6 membered heterocyclic ring containing 2 or 3 nitrogen atoms, wherein -NHR<sup>2</sup>-R<sup>7</sup> taken together are selected from the group -NH-CH=N-, -NH-N=N-, -NH-N=C-, -NH-CH=CH-, -NH-CH<sub>2</sub>-CH<sub>2</sub>-, -NH-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-, -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH-, -N=CH-CH=CH-, -N=CH-CH=N-, -N=CH-N=CH-, and -N=N-CH=CH-;

U<sup>1</sup> is selected from:  
 -(CH<sub>2</sub>)<sub>n</sub>-,  
 -O-(CH<sub>2</sub>)<sub>m</sub>-,  
 -(CH<sub>2</sub>)<sub>m</sub>-O-,  
 -(CH<sub>2</sub>)<sub>m</sub>-N(R<sup>3</sup>)-,  
 -(CH<sub>2</sub>)<sub>t</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,  
 -(CH<sub>2</sub>)<sub>t</sub>-O-CH<sub>2</sub>-,  
 -CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>t</sub>-,  
 -CH<sub>2</sub>-N(R<sup>3</sup>)-(CH<sub>2</sub>)<sub>t</sub>-, and  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>m</sub>-;

U<sup>2</sup> is selected from:  
 -(CH<sub>2</sub>)<sub>h</sub>-,  
 -O-(CH<sub>2</sub>)<sub>r</sub>-,  
 -(CH<sub>2</sub>)<sub>r</sub>-O-,  
 -(CH<sub>2</sub>)<sub>r</sub>-N(R<sup>3</sup>)-,  
 -(CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,  
 -(CH<sub>2</sub>)<sub>i</sub>-O-CH<sub>2</sub>-,  
 -CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>i</sub>-,  
 -CH<sub>2</sub>-N(R<sup>3</sup>)-(CH<sub>2</sub>)<sub>i</sub>-, and  
 -N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>r</sub>-;

U<sup>3</sup> is selected from:

- (CH<sub>2</sub>)<sub>h</sub>-,
- (CH<sub>2</sub>)<sub>q</sub>-O-,
- (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-,
- 5 - (CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-, and
- (CH<sub>2</sub>)<sub>q</sub>-O-CH<sub>2</sub>-;

R<sup>8</sup> and R<sup>9</sup> are independently selected from: H, methyl, ethyl, propyl, butyl, CF<sub>3</sub>, F, Cl, Br, and OR<sup>10</sup>;

10

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

- H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl (C<sub>0</sub>-C<sub>4</sub> alkyl), aryl (C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl (C<sub>0</sub>-C<sub>4</sub> alkyl),
- wherein said aryl or heteroaryl groups are substituted
- 15 with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same

- 20 nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl, said heterocycle being optionally
- 25 substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl (C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl (C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl (C<sub>0</sub>-C<sub>5</sub> alkoxy)carbonyl, aryl (C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl (C<sub>0</sub>-C<sub>5</sub> alkyl), aryl (C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl (C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and heteroarylsulfonyl;
- 30

35 W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

R<sup>13</sup> is H or methyl;

R<sup>14</sup> is selected from:

5 H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub>  
cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub>  
alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl),  
C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub>  
alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub>  
alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub>  
10 alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and  
R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above  
alkyl, cycloalkyl, aryl or heteroaryl groups are  
substituted with 0-2 substituents independently  
15 selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>  
alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>15</sup> is selected from:

20 -NH-C(=O)-O-R<sup>17</sup>,  
-NH-C(=O)-R<sup>17</sup>,  
-NH-C(=O)-NH-R<sup>17</sup>,  
-NHSO<sub>2</sub>-R<sup>17</sup>, and  
-NHSO<sub>2</sub>-NHR<sup>17</sup>;

25 Y is -C(=O)R<sup>19</sup>;

R<sup>17</sup> is selected from:

C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
30 heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub>  
alkyl), and heteroarylheteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
said aryl or heteroaryl groups are optionally  
substituted with 0-3 substituents independently  
selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
35 C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>19</sup> is selected from:

hydroxy,

C<sub>1</sub>-C<sub>10</sub> alkoxy,  
 methylcarbonyloxymethoxy-,  
 ethylcarbonyloxymethoxy-,  
 t-butylcarbonyloxymethoxy-,  
 5 cyclohexylcarbonyloxymethoxy-,  
 1-(methylcarbonyloxy)ethoxy-,  
 1-(ethylcarbonyloxy)ethoxy-,  
 1-(t-butylcarbonyloxy)ethoxy-,  
 1-(cyclohexylcarbonyloxy)ethoxy-,  
 10 i-propyloxycarbonyloxymethoxy-,  
 t-butyloxycarbonyloxymethoxy-,  
 1-(i-propyloxycarbonyloxy)ethoxy-,  
 1-(cyclohexyloxycarbonyloxy)ethoxy-,  
 1-(t-butyloxycarbonyloxy)ethoxy-,  
 15 dimethylaminoethoxy-,  
 diethylaminoethoxy-,  
 (5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
 (5-(t-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
 (1,3-dioxo-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
 20 1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
 (R<sup>10</sup>)(R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and  
 -O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>)(R<sup>22</sup>)(R<sup>23</sup>)Z<sup>-</sup>;

25 Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
 halide, bisulfate, sulfate, hydrogenphosphate,  
 phosphate, toluenesulfonate, methanesulfonate,  
 ethanesulfonate, acetate, trifluoroacetate, citrate,  
 oxalate, succinate, and malonate;

30 R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:  
 H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
 alkyl), phenyl, benzyl, wherein said phenyl group is  
 substituted with 0-2 substituents selected from the  
 group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,  
 35 Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
 membered heterocyclic aromatic or non-aromatic ring

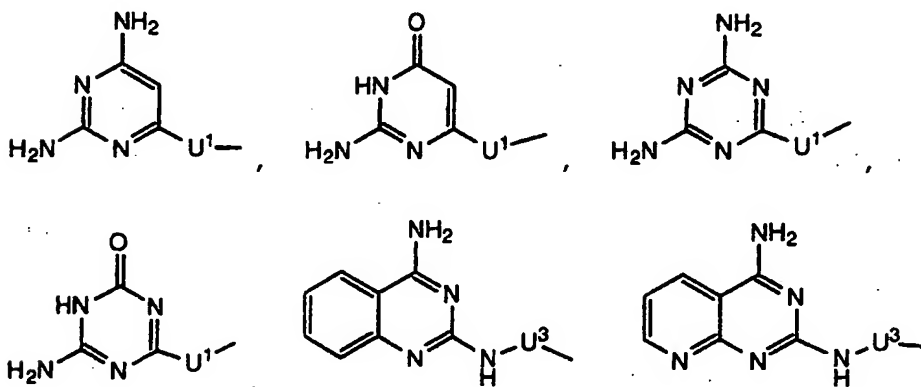
system containing 1-2 heteroatoms selected from N, O  
and S and R<sup>23</sup> is defined as above or R<sup>21</sup>, R<sup>22</sup>, and R<sup>23</sup>  
can be taken together to form a heterobicyclic ring  
system containing 1-2 heteroatoms selected from N, O  
and S;

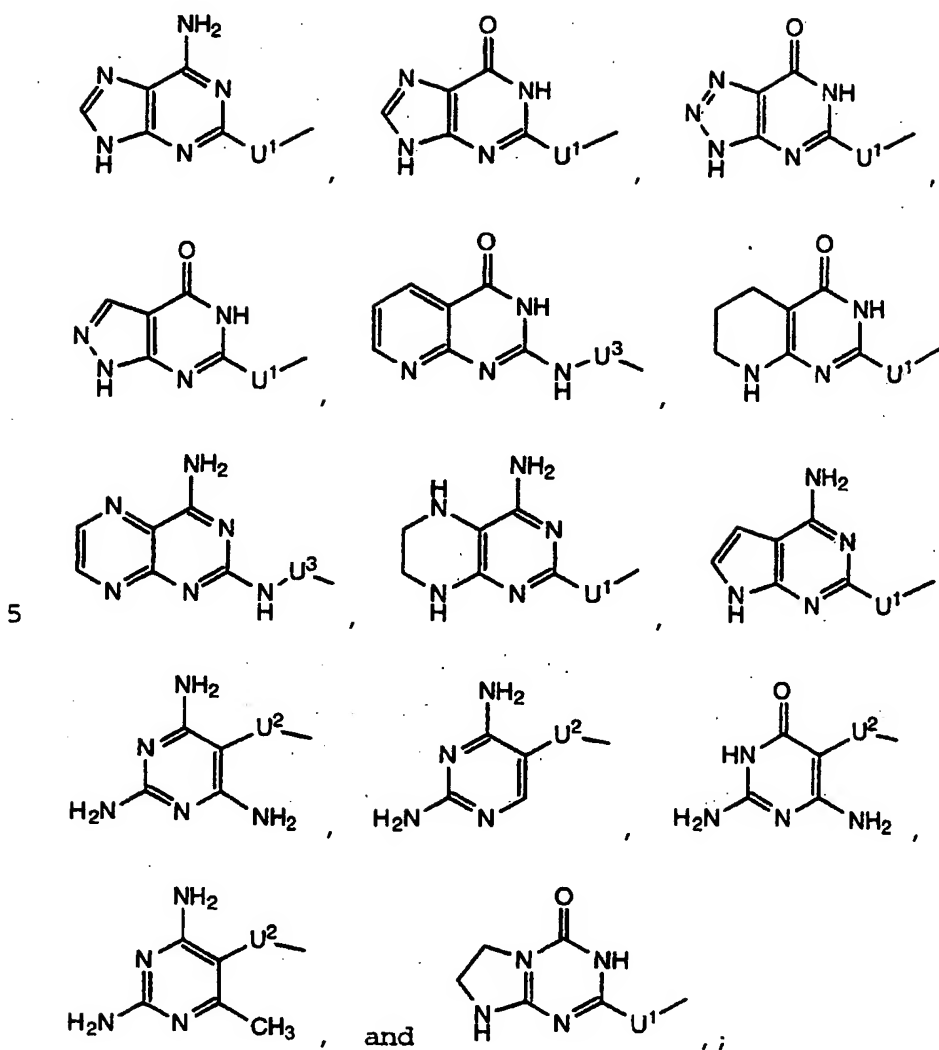
h is 0-4;  
i is 0-2;  
k is 2-6;  
m is 1-4;  
n is 0-5;  
q is 2-3;  
r is 0-3; and  
t is 1-3;

provided that h, i, m, n, q, r, and t, at each  
occurrence, are chosen such that the number of in-chain  
atoms between Y and the pyrimidine, pyrimidone,  
triazine or triazinone of G is in the range of 8-12.

5. A compound of Claim 4 wherein:

G is a meta or para substituent with respect to W and is  
selected from:





R<sup>9</sup> is H,

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

5 H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>4</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

10

alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl;

15

W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

20

X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

R<sup>13</sup> is H, methyl, ethyl, propyl, butyl, pentyl, or hexyl;

25 R<sup>14</sup> is selected from:

C<sub>2</sub>-C<sub>8</sub> alkenyl, C<sub>2</sub>-C<sub>8</sub> alkynyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>3</sub>-C<sub>8</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above alkyl, cycloalkyl, aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy, butoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

30

R<sup>15</sup> is selected from:

-NH-C(=O)-O-R<sup>17</sup>,  
-NHSO<sub>2</sub>-R<sup>17</sup> and

35

-NHSO<sub>2</sub>-NHR<sup>17</sup>;

Y is -C(=O)R<sup>19</sup>;

5 R<sup>17</sup> is selected from:

methyl, ethyl, propyl, butyl, pentyl, hexyl,  
cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl,  
phenylmethyl, phenylethyl, phenylpropyl, phenylbutyl,  
heteroaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, arylaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-,  
10 heteroarylaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, arylheteroaryl(C<sub>1</sub>-C<sub>3</sub>  
alkyl)-, heteroarylheteroaryl(C<sub>1</sub>-C<sub>3</sub> alkyl)-, heteroaryl,  
and aryl, wherein said aryl or heteroaryl groups are  
optionally substituted with 0-3 substituents  
independently selected from the group consisting of:  
15 methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy,  
butoxy, phenyl, F, Cl, Br, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

R<sup>19</sup> is selected from:

hydroxy, methoxy, ethoxy, propoxy, butoxy,  
20 methylcarbonyloxymethoxy-,  
ethylcarbonyloxymethoxy-,  
t-butylcarbonyloxymethoxy-,  
cyclohexylcarbonyloxymethoxy-,  
1-(methylcarbonyloxy)ethoxy-,  
25 1-(ethylcarbonyloxy)ethoxy-,  
1-(t-butylcarbonyloxy)ethoxy-,  
1-(cyclohexylcarbonyloxy)ethoxy-,  
i-propyloxycarbonyloxymethoxy-,  
t-butyloxycarbonyloxymethoxy-,  
30 1-(i-propyloxycarbonyloxy)ethoxy-,  
1-(cyclohexyloxycarbonyloxy)ethoxy-,  
1-(t-butyloxycarbonyloxy)ethoxy-,  
dimethylaminoethoxy-,  
diethylaminoethoxy-,  
35 (5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
(5-(t-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
(1,3-dioxa-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,



(R<sup>10</sup>) (R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and  
-O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>) (R<sup>22</sup>) (R<sup>23</sup>) Z<sup>-</sup>;

5 Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
ethanesulfonate, acetate, trifluoroacetate, citrate,  
oxalate, succinate, and malonate;

10 R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from: H, methyl,  
ethyl, propyl and butyl;

alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
15 membered heterocyclic ring system containing 1-2  
heteroatoms selected from N, O and S and R<sup>23</sup> is defined  
as above;

h is 0-4;  
i is 0-2;  
20 k is 2-6;  
m is 1-4;  
n is 0-5;  
q is 2-3;  
r is 0-3; and  
25 t is 1-3;

provided that h, i, m, n, q, r, and t, at each  
occurrence, are chosen such that the number of in-chain  
atoms between Y and the pyrimidine, pyrimidone,  
30 triazine or triazinone of G is in the range of 8-12.

6. A compound of Claim 5 selected from the group  
consisting of:

35 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2-  
aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)]-  
aminopropionic acid sodium salt,

- 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 5 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 10 2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 15 2-[(S)-(i-Butyloxycarbonyl)amino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 20 2-[(S)-(n-Butyloxycarbonyl)amino]-3-[4-(2-(2-aminopyrimid-4-one-6-yl)ethylphenylcarbonyl)aminopropionic acid sodium salt,
- 25 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenylcarbonyl)aminopropionic acid trifluoroacetate salt,
- 30 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenylcarbonyl)aminopropionic acid trifluoroacetate salt,
- 35 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(2,4-diaminopyrimidin-6-yl)ethylphenylcarbonyl)aminopropionic acid trifluoroacetate salt,

- 2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(2,4-diamino-  
pyrimidin-6-yl)ethylphenylcarbonyl)aminopropionic acid  
trifluoroacetate salt,
- 5 2-[(S)-i-Butyloxycarbonylamino]-3-[4-(2-(2,4-  
diaminopyrimidin-6-yl)ethylphenylcarbonyl)-  
aminopropionic acid trifluoroacetate salt,
- 10 2-[(S)-n-Butyloxycarbonylamino]-3-[4-(2-(2,4-  
diaminopyrimidin-6-yl)ethylphenylcarbonyl)-  
aminopropionic acid trifluoroacetate salt,
- 15 2-[(S)-Benzyloxycarbonylamino]-3-[4-(2-(2,4-  
diaminopyrimidin-6-yl)ethylphenylcarbonyl)-  
aminopropionic acid trifluoroacetate salt,
- 20 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-  
(2,4-diaminotriazin-6-yl)ethylphenylcarbonyl)-  
aminopropionic acid,
- 25 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(4-  
aminoquinazolin-2-yl)aminomethylphenylcarbonyl)-  
aminopropionic acid,
- 30 2-[(S)-Phenylsulfonylamino]-3-[4-(2-(4-aminoquinazolin-2-  
yl)aminomethylphenylcarbonyl)aminopropionic acid,
- 35 2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(4-aminoquinazolin-2-  
yl)aminomethylphenylcarbonyl)aminopropionic acid,
- 2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(4-aminoquinazolin-2-  
yl)aminomethylphenylcarbonyl)aminopropionic acid,
- 2-[(S)-i-Butyloxycarbonylamino]-3-[4-(2-(4-  
aminoquinazolin-2-yl)aminomethylphenylcarbonyl)-  
aminopropionic acid,

2-[(S)-n-Butyloxycarbonylamino]-3-[4-(2-(4-aminoquinazolin-2-yl)aminomethylphenylcarbonyl)-aminopropionic acid,

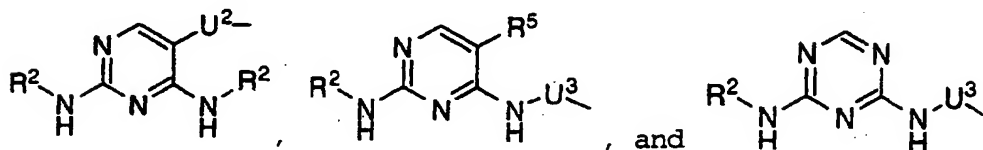
5 2-[(S)-Benzyloxycarbonylamino]-3-[4-(2-(4-aminoquinazolin-2-yl)aminomethylphenylcarbonyl)aminopropionic acid,

and ester forms thereof, said ester being selected from the group consisting of:

10 methyl,  
ethyl,  
isopropyl,  
n-butyl,  
isobutyl,  
15 benzyl,  
methylcarbonyloxymethyl,  
ethylcarbonyloxymethyl,  
tert-butylcarbonyloxymethyl,  
cyclohexylcarbonyloxymethyl,  
20 tert-butyloxycarbonyloxymethyl,  
dimethylaminoethyl,  
diethylaminoethyl,  
morpholinoethyl,  
pyrrolidinoethyl,  
25 trimethylammonioethyl, and  
2-(1-methylmorpholinium-1-yl)ethyl.

7. A compound of Claim 2 of Formula (IA), wherein:

30 G is a *meta* or *para* substituent with respect to W and is selected from:



35 R<sup>2</sup> at each occurrence is independently selected from:

H, methyl, ethyl, propyl, butyl, (C<sub>1</sub>-C<sub>4</sub> alkyl)carbonyl, (C<sub>1</sub>-C<sub>4</sub> alkoxy)carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl)carbonyl, and C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkoxy)carbonyl;

5

R<sup>4</sup> is selected from: H, methyl, ethyl, propyl, butyl, cyclopropyl, and cyclopropylmethyl;

10

R<sup>5</sup> is selected from H, NR<sup>2</sup>R<sup>4</sup>, methyl, ethyl, propyl, butyl, pentyl, and hexyl;

15

U<sup>2</sup> is selected from:

-(CH<sub>2</sub>)<sub>h</sub>-,

-O-(CH<sub>2</sub>)<sub>r</sub>-,

-(CH<sub>2</sub>)<sub>r</sub>-O-,

-(CH<sub>2</sub>)<sub>r</sub>-N(R<sup>3</sup>)-,

-(CH<sub>2</sub>)<sub>i</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-,

-(CH<sub>2</sub>)<sub>i</sub>-O-CH<sub>2</sub>-,

-CH<sub>2</sub>-O-(CH<sub>2</sub>)<sub>i</sub>-,

20

-CH<sub>2</sub>-N(R<sup>3</sup>)-(CH<sub>2</sub>)<sub>i</sub>-, and

-N(R<sup>4</sup>)-(CH<sub>2</sub>)<sub>r</sub>-;

25

U<sup>3</sup> is selected from:

-(CH<sub>2</sub>)<sub>h</sub>-,

-(CH<sub>2</sub>)<sub>q</sub>-O-,

-(CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-,

-(CH<sub>2</sub>)<sub>q</sub>-N(R<sup>3</sup>)-CH<sub>2</sub>-, and

-(CH<sub>2</sub>)<sub>q</sub>-O-CH<sub>2</sub>-;

30

R<sup>8</sup> and R<sup>9</sup> are independently selected from: H, methyl, ethyl, propyl, butyl, CF<sub>3</sub>, F, Cl, Br, and OR<sup>10</sup>;

35

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

H, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the

group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same  
 5 nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together with the nitrogen atom to which they are attached to form a heterocycle selected from 1-aziridinyl, 1-azetidiny, 1-piperidinyl, 1-morpholinyl, 1-pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-  
 10 piperazinyl, said heterocycle being optionally substituted with 0-3 groups selected from oxo, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylcarbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub> alkyl)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkoxy carbonyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>5</sub>  
 15 alkoxy)carbonyl, aryl(C<sub>0</sub>-C<sub>5</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>5</sub> alkyl), aryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, heteroaryl(C<sub>1</sub>-C<sub>5</sub> alkoxy)carbonyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl arylsulfonyl and heteroarylsulfonyl;

20 W is -CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, -CH<sub>2</sub>CH<sub>2</sub>C(=O)N(R<sup>13</sup>)-, or -C(=O)N(R<sup>13</sup>)-;

X is -CH(R<sup>14</sup>)-CH<sub>2</sub>- or -CH<sub>2</sub>-CH(R<sup>15</sup>)-;

R<sup>13</sup> is H or methyl;

25

R<sup>14</sup> is selected from:

H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, C<sub>1</sub>-C<sub>6</sub> hydroxyalkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl),  
 30 C<sub>1</sub>-C<sub>6</sub> alkylthio(C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl(C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylthio C<sub>1</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkylsulfonyl C<sub>1</sub>-C<sub>6</sub> alkyl), C<sub>3</sub>-C<sub>10</sub> cycloalkyl(C<sub>0</sub>-C<sub>6</sub> alkyl), aryl(C<sub>0</sub>-C<sub>6</sub> alkyl), heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
 R<sup>17</sup>HNC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), R<sup>10</sup>OC(=O)(C<sub>1</sub>-C<sub>4</sub> alkyl), and  
 35 R<sup>17</sup>HN(C<sub>1</sub>-C<sub>4</sub> alkyl), provided that any of the above alkyl, cycloalkyl, aryl or heteroaryl groups are substituted with 0-2 substituents independently

selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>15</sup> is selected from:

- 5       -NH-C(=O)-O-R<sup>17</sup>,  
         -NH-C(=O)-R<sup>17</sup>,  
         -NH-C(=O)-NH-R<sup>17</sup>,  
         -NHSO<sub>2</sub>-R<sup>17</sup>, and  
         -NHSO<sub>2</sub>-NHR<sup>17</sup>;

10

Y is -C(=O)R<sup>19</sup>;

R<sup>17</sup> is selected from:

- 15       C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>3</sub>-C<sub>10</sub> cycloalkyl, aryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
         heteroaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl),  
         heteroarylaryl(C<sub>0</sub>-C<sub>6</sub> alkyl), arylheteroaryl(C<sub>0</sub>-C<sub>6</sub>  
         alkyl), and heteroarylheteroaryl (C<sub>0</sub>-C<sub>6</sub> alkyl), wherein  
         said aryl or heteroaryl groups are optionally  
         substituted with 0-3 substituents independently  
20       selected from the group consisting of: C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-  
         C<sub>4</sub> alkoxy, aryl, F, Cl, Br, CN, NH<sub>2</sub>, CF<sub>3</sub>, and NO<sub>2</sub>;

R<sup>19</sup> is selected from:

- 25       hydroxy,  
         C<sub>1</sub>-C<sub>10</sub> alkoxy,  
         methylcarbonyloxymethoxy-,  
         ethylcarbonyloxymethoxy-,  
         *t*-butylcarbonyloxymethoxy-,  
         cyclohexylcarbonyloxymethoxy-,  
30       1-(methylcarbonyloxy)ethoxy-,  
         1-(ethylcarbonyloxy)ethoxy-,  
         1-(*t*-butylcarbonyloxy)ethoxy-,  
         1-(cyclohexylcarbonyloxy)ethoxy-,  
         *i*-propyloxy carbonyloxymethoxy-,  
35       *t*-butyloxy carbonyloxymethoxy-,  
         1-(*i*-propyloxy carbonyloxy)ethoxy-,  
         1-(cyclohexyloxy carbonyloxy)ethoxy-,  
         1-(*t*-butyloxy carbonyloxy)ethoxy-,

dimethylaminoethoxy-,  
diethylaminoethoxy-,  
(5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
(5-(*t*-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-,  
5 (1,3-dioxa-5-phenyl-cyclopenten-2-on-4-yl)methoxy-,  
1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
(R<sup>10</sup>) (R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and  
-O(CH<sub>2</sub>)<sub>k</sub>N<sup>+</sup>(R<sup>21</sup>) (R<sup>22</sup>) (R<sup>23</sup>)Z<sup>-</sup>;

10 Z<sup>-</sup> is a pharmaceutically acceptable anion selected from  
halide, bisulfate, sulfate, hydrogenphosphate,  
phosphate, toluenesulfonate, methanesulfonate,  
ethanesulfonate, acetate, trifluoroacetate, citrate,  
oxalate, succinate, and malonate;

15 R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from:  
H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>7</sub> cycloalkyl(C<sub>0</sub>-C<sub>4</sub>  
alkyl), phenyl, benzyl, wherein said phenyl group is  
substituted with 0-2 substituents selected from the  
20 group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, OH, F,  
Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7  
25 membered heterocyclic aromatic or non-aromatic ring  
system containing 1-2 heteroatoms selected from N, O  
and S and R<sup>23</sup> is defined as above or R<sup>21</sup>, R<sup>22</sup>, and R<sup>23</sup>  
can be taken together to form a heterobicyclic ring  
system containing 1-2 heteroatoms selected from N, O  
and S;

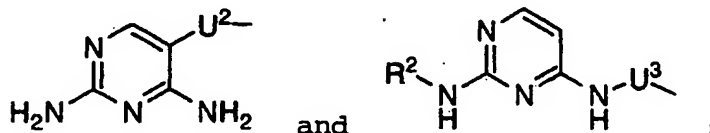
30 h is 0-4;  
i is 0-2;  
k is 2-6;  
m is 1-4;  
35 n is 0-5;  
q is 2-3;  
r is 0-3; and  
t is 1-3;



provided that h, i, m, n, q, r, and t, at each  
occurrence, are chosen such that the number of in-chain  
atoms between Y and the pyrimidine or triazine of G is  
in the range of 8-12.

8. A compound of Claim 7 wherein:

G is a *meta* or *para* substituent with respect to W and is  
selected from:



U<sup>2</sup> is selected from: -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -NH-CH<sub>2</sub>-, and  
-NH-CH<sub>2</sub>CH<sub>2</sub>-;

U<sup>3</sup> is -CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-;

R<sup>8</sup> is selected from: H, methyl, ethyl, propyl, butyl, -OH,  
methoxy, ethoxy, F, Cl, Br, and CF<sub>3</sub>;

R<sup>9</sup> is H,

R<sup>10</sup> and R<sup>11</sup> are independently selected from:

H, methyl, ethyl, propyl, butyl, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>4</sub>  
cycloalkyl(C<sub>0</sub>-C<sub>4</sub> alkyl), aryl(C<sub>0</sub>-C<sub>4</sub> alkyl), and  
heteroaryl(C<sub>0</sub>-C<sub>4</sub> alkyl), wherein said aryl or  
heteroaryl groups are substituted with 0-2 substituents  
independently selected from the group consisting of  
C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, F, Cl, Br, CF<sub>3</sub>, and NO<sub>2</sub>;

alternatively, R<sup>10</sup> and R<sup>11</sup> when both substituents on the same  
nitrogen atom as in (-NR<sup>10</sup>R<sup>11</sup>) can be taken together  
with the nitrogen atom to which they are attached to  
form a heterocycle selected from 1-aziridinyl, 1-  
azetidiny, 1-piperidinyl, 1-morpholinyl, 1-

pyrrolidinyl, thiamorpholinyl, thiazolidinyl, and 1-piperazinyl;

W is  $-\text{CH}_2\text{C}(=\text{O})\text{N}(\text{R}^{13})-$ ,  $-\text{CH}_2\text{CH}_2\text{C}(=\text{O})\text{N}(\text{R}^{13})-$ , or  $-\text{C}(=\text{O})\text{N}(\text{R}^{13})-$ ;

5

X is  $-\text{CH}(\text{R}^{14})-\text{CH}_2-$  or  $-\text{CH}_2-\text{CH}(\text{R}^{15})-$ ;

$\text{R}^{13}$  is H, methyl, ethyl, propyl, butyl, pentyl, or hexyl;

10  $\text{R}^{14}$  is selected from:

$\text{C}_2$ - $\text{C}_8$  alkenyl,  $\text{C}_2$ - $\text{C}_8$  alkynyl,  $\text{C}_3$ - $\text{C}_8$  cycloalkyl,  $\text{C}_1$ - $\text{C}_6$  hydroxyalkyl,  $\text{C}_3$ - $\text{C}_8$  cycloalkyl( $\text{C}_0$ - $\text{C}_6$  alkyl), aryl( $\text{C}_0$ - $\text{C}_6$  alkyl), heteroaryl( $\text{C}_0$ - $\text{C}_6$  alkyl),  $\text{R}^{17}\text{HNC}(=\text{O})(\text{C}_1$ - $\text{C}_4$  alkyl), and  $\text{R}^{17}\text{HN}(\text{C}_1$ - $\text{C}_4$  alkyl), provided that any of the

15 above alkyl, cycloalkyl, aryl or heteroaryl groups are substituted with 0-2 substituents independently selected from the group consisting of methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy, butoxy, F, Cl, Br,  $\text{CF}_3$ , and  $\text{NO}_2$ ;

20

$\text{R}^{15}$  is selected from:

$-\text{NH}-\text{C}(=\text{O})-\text{O}-\text{R}^{17}$ ,  
 $-\text{NHSO}_2-\text{R}^{17}$  and  
 $-\text{NHSO}_2-\text{NHR}^{17}$ ;

25

Y is  $-\text{C}(=\text{O})\text{R}^{19}$ ;

$\text{R}^{17}$  is selected from:

methyl, ethyl, propyl, butyl, pentyl, hexyl,  
30 cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl,  
phenylmethyl, phenylethyl, phenylpropyl, phenylbutyl,  
heteroaryl( $\text{C}_1$ - $\text{C}_3$  alkyl)-, arylaryl( $\text{C}_1$ - $\text{C}_3$  alkyl)-,  
heteroarylaryl( $\text{C}_1$ - $\text{C}_3$  alkyl)-, arylheteroaryl( $\text{C}_1$ - $\text{C}_3$  alkyl)-,  
heteroarylheteroaryl( $\text{C}_1$ - $\text{C}_3$  alkyl)-, heteroaryl,  
35 and aryl, wherein said aryl or heteroaryl groups are optionally substituted with 0-3 substituents independently selected from the group consisting of:

methyl, ethyl, propyl, butyl, methoxy, ethoxy, propoxy, butoxy, phenyl, F, Cl, Br, -CN, -NH<sub>2</sub>, -CF<sub>3</sub>, and -NO<sub>2</sub>;

R<sup>19</sup> is selected from:

- 5 hydroxy, methoxy, ethoxy, propoxy, butoxy, methylcarbonyloxymethoxy-, ethylcarbonyloxymethoxy-, t-butylcarbonyloxymethoxy-, cyclohexylcarbonyloxymethoxy-,  
10 1-(methylcarbonyloxy)ethoxy-, 1-(ethylcarbonyloxy)ethoxy-, 1-(t-butylcarbonyloxy)ethoxy-, 1-(cyclohexylcarbonyloxy)ethoxy-, i-propyloxycarbonyloxymethoxy-,  
15 t-butyloxycarbonyloxymethoxy-, 1-(i-propyloxycarbonyloxy)ethoxy-, 1-(cyclohexyloxycarbonyloxy)ethoxy-, 1-(t-butyloxycarbonyloxy)ethoxy-, dimethylaminoethoxy-,  
20 diethylaminoethoxy-, (5-methyl-1,3-dioxacyclopenten-2-on-4-yl)methoxy-, (5-(t-butyl)-1,3-dioxacyclopenten-2-on-4-yl)methoxy-, (1,3-dioxa-5-phenyl-cyclopenten-2-on-4-yl)methoxy-, 1-(2-(2-methoxypropyl)carbonyloxy)ethoxy-,  
25 (R<sup>10</sup>) (R<sup>11</sup>)N-(C<sub>1</sub>-C<sub>10</sub> alkoxy)-, and -O(CH<sub>2</sub>)<sub>k</sub>N<sup>-</sup>(R<sup>21</sup>) (R<sup>22</sup>) (R<sup>23</sup>)Z<sup>-</sup>;

- 2<sup>-</sup> is a pharmaceutically acceptable anion selected from halide, bisulfate, sulfate, hydrogenphosphate,  
30 phosphate, toluenesulfonate, methanesulfonate, ethanesulfonate, acetate, trifluoroacetate, citrate, oxalate, succinate, and malonate;

- R<sup>21</sup>, R<sup>22</sup> and R<sup>23</sup> are independently selected from: H, methyl,  
35 ethyl, propyl and butyl;

alternatively R<sup>21</sup> and R<sup>22</sup> can be taken together to form a 5-7 membered heterocyclic ring system containing 1-2

heteroatoms selected from N, O and S and R<sup>23</sup> is defined as above;

- h is 0-4;  
5 i is 0-2;  
k is 2-6;  
m is 1-4;  
n is 0-5;  
q is 2-3;  
10 r is 0-3; and  
t is 1-3;

provided that h, i, m, n, q, r, and t, at each occurrence, are chosen such that the number of in-chain atoms between Y and the pyrimidine, pyrimidone, triazine or triazinone of G is in the range of 8-12.

9. A compound of Claim 8 selected from the group consisting of:

- 20 2-[(S)-((2,4,6-Trimethylphenyl)sulfonyl)amino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]-aminopropionic acid,  
25 2-[(S)-i-Butyloxycarbonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt,  
30 2-[(S)-n-Butyloxycarbonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt,  
35 2-[(S)-Benzyloxycarbonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt, and

2-[(S)-Phenylsulfonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt.

5      2-[(S)-i-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt.

10      2-[(S)-n-Butylsulfonylamino]-3-[4-(2-(2-aminopyrimidin-4-yl)aminomethyl)phenylcarbonyl]aminopropionic acid trifluoroacetate salt.

15      10. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of claim 1, 2, 3, 4, 5, 6, 7, 8, or 9 or a pharmaceutically acceptable salt form thereof.

20      11. A method for the treatment of conditions mediated by cell adhesion, angiogenic disorders, inflammation, cancer metastasis, diabetic retinopathy, neovascular glaucoma, thrombosis, restenosis, osteoporosis, or macular degeneration which comprises administering to a host in need of such treatment a therapeutically effective amount of a  
25      compound of Claim 1, 2, 3, 4, 5, 6, 7, 8, or 9.

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